

THE ARCHITECT & BUILDING NEWS

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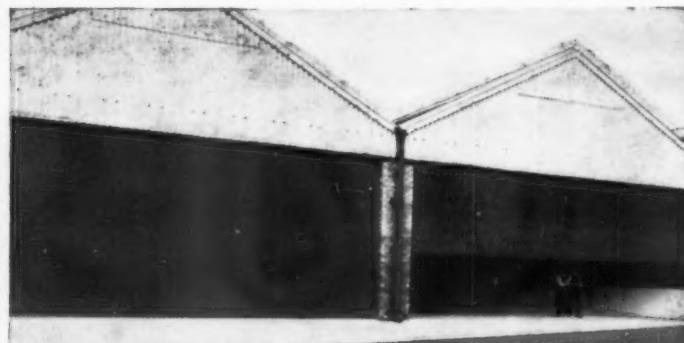
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- FIVE NEW CHURCHES
- CURRENT MARKET PRICES
AND MEASURED RATES

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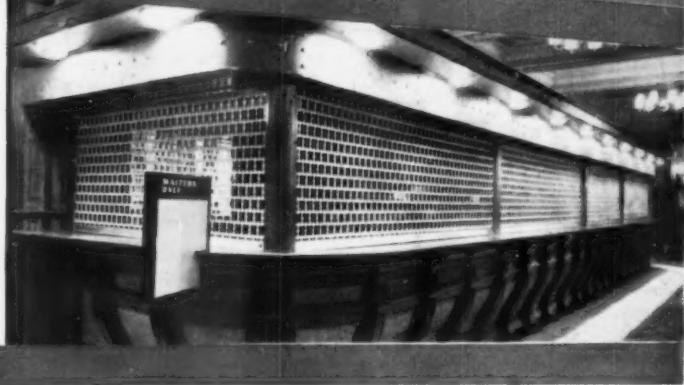
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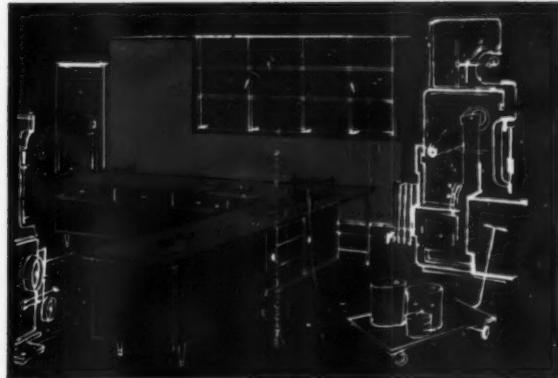
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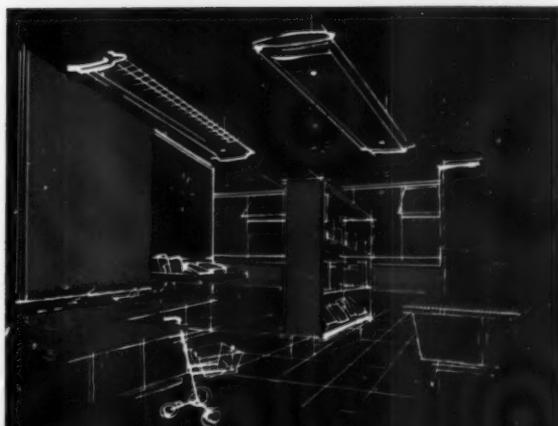


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A



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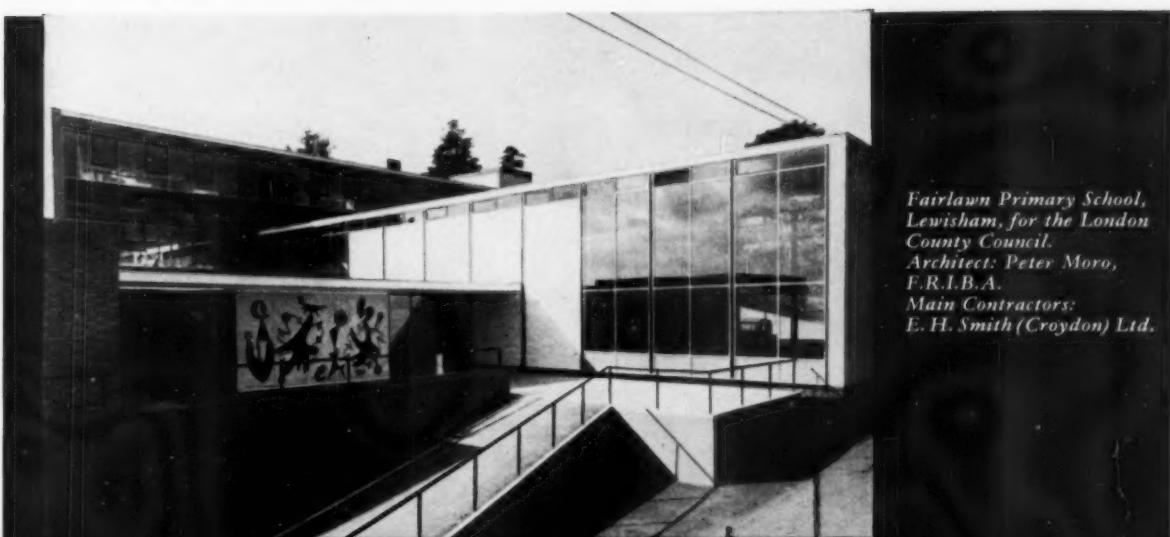
*Finland House, Haymarket,
Thermalite used as partitions.
Architects: Kenneth Wakeford,
Jerram & Harris in association with
Pekka Saarema S.A.F.A. Finland.
Main Contractors: A. E. Symes Ltd.*



*Flats at Parkleys, Ham Common.
Tile and decorative panels
fixed to 4" Thermalite Panel walls.
Architect: Eric Lyons, F.R.I.B.A.
Main Contractors: Wates Ltd.*



*Bush House, Birmingham.
Thermalite used for inner leaf
and partitions.
Architects: Harry W. Weedon,
F.R.I.B.A. and Partners in co-operation
with the City Architect.
Main Contractors: C. Bryant & Son Ltd.*



Fairlawn Primary School,
Lewisham, for the London
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Architect: Peter Moro,
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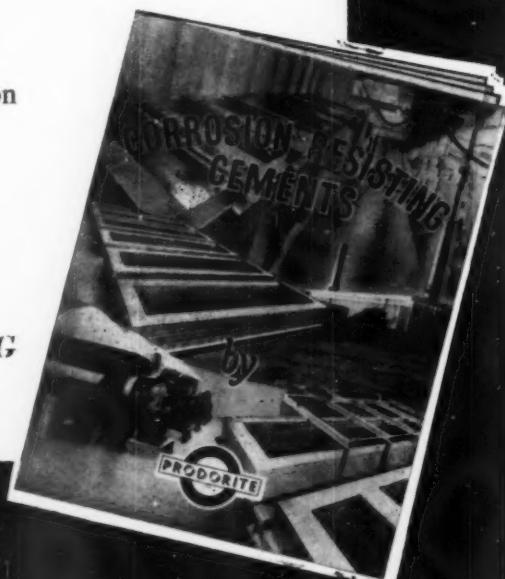
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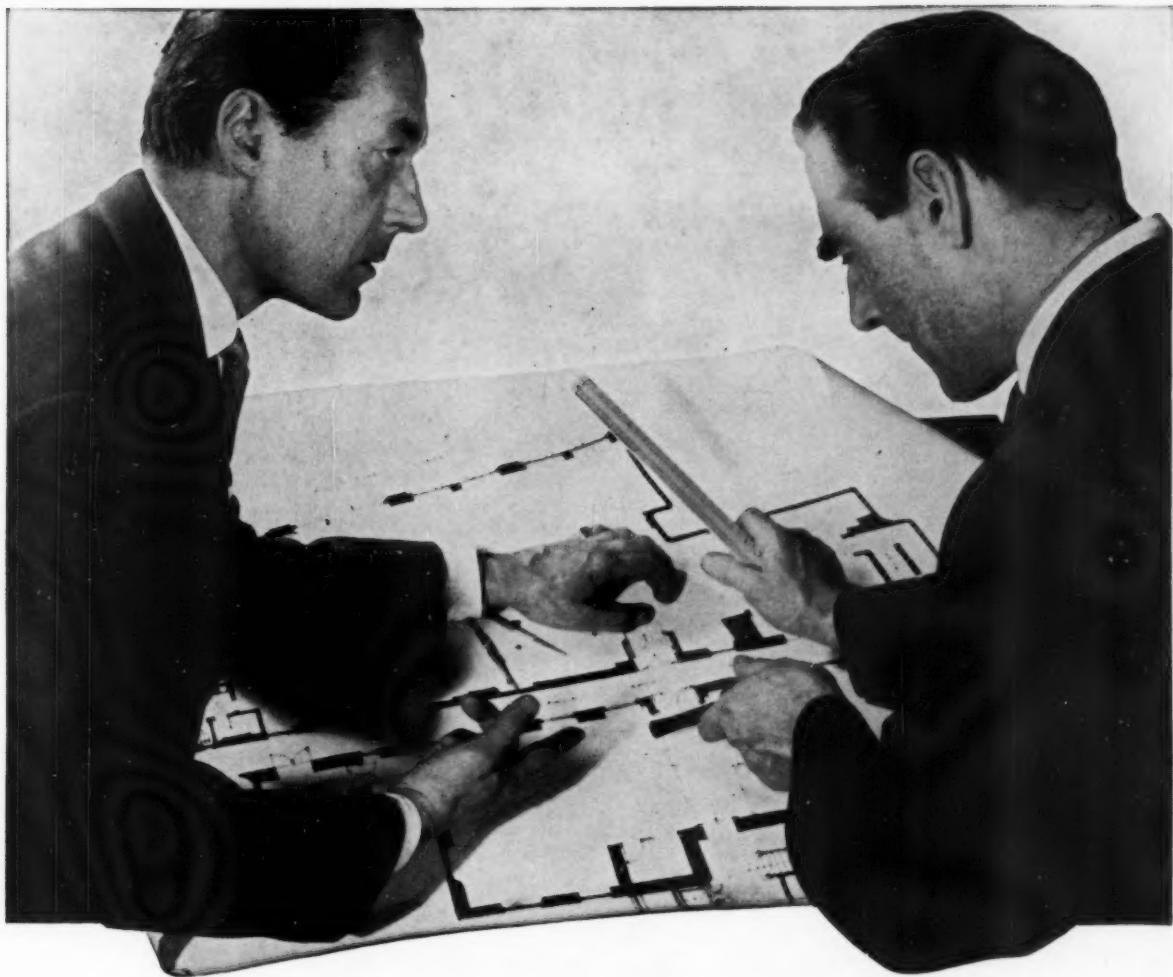
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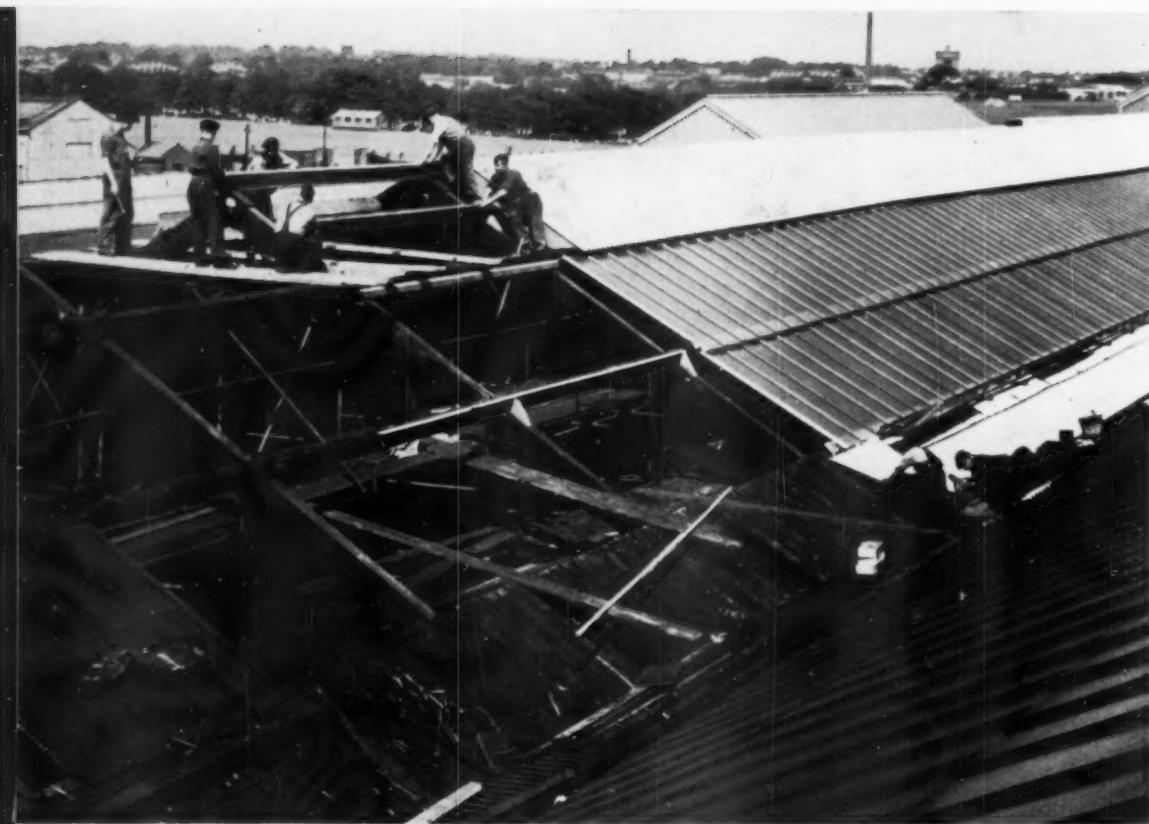
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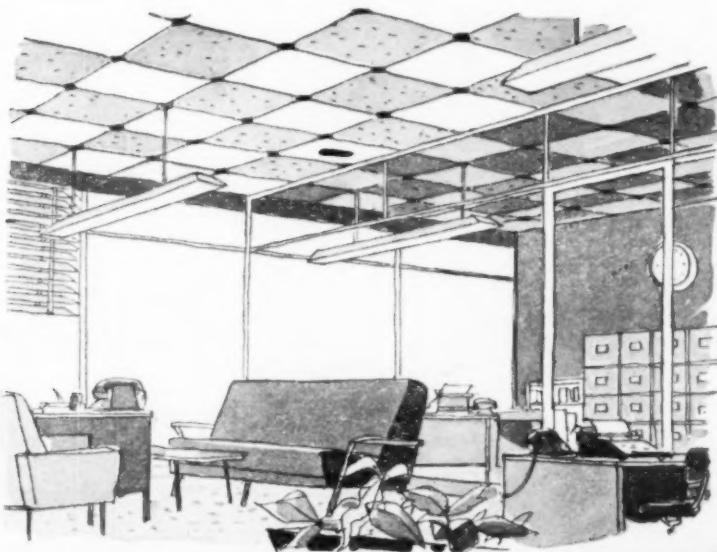
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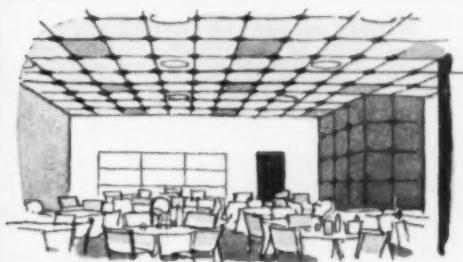
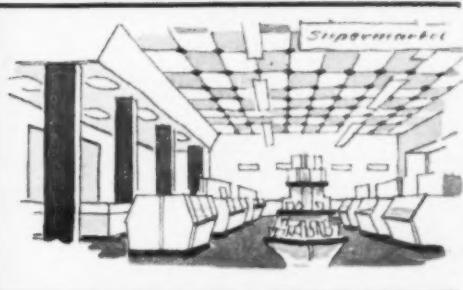
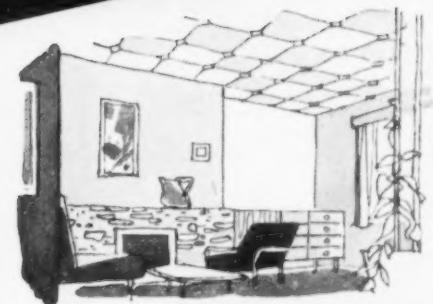
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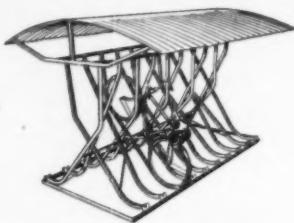
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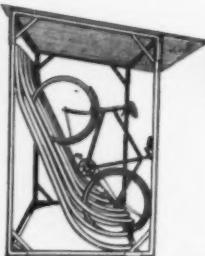


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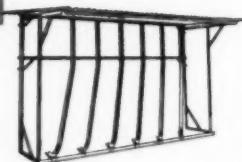
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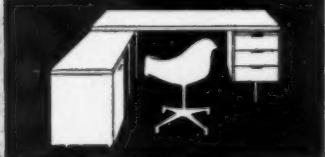
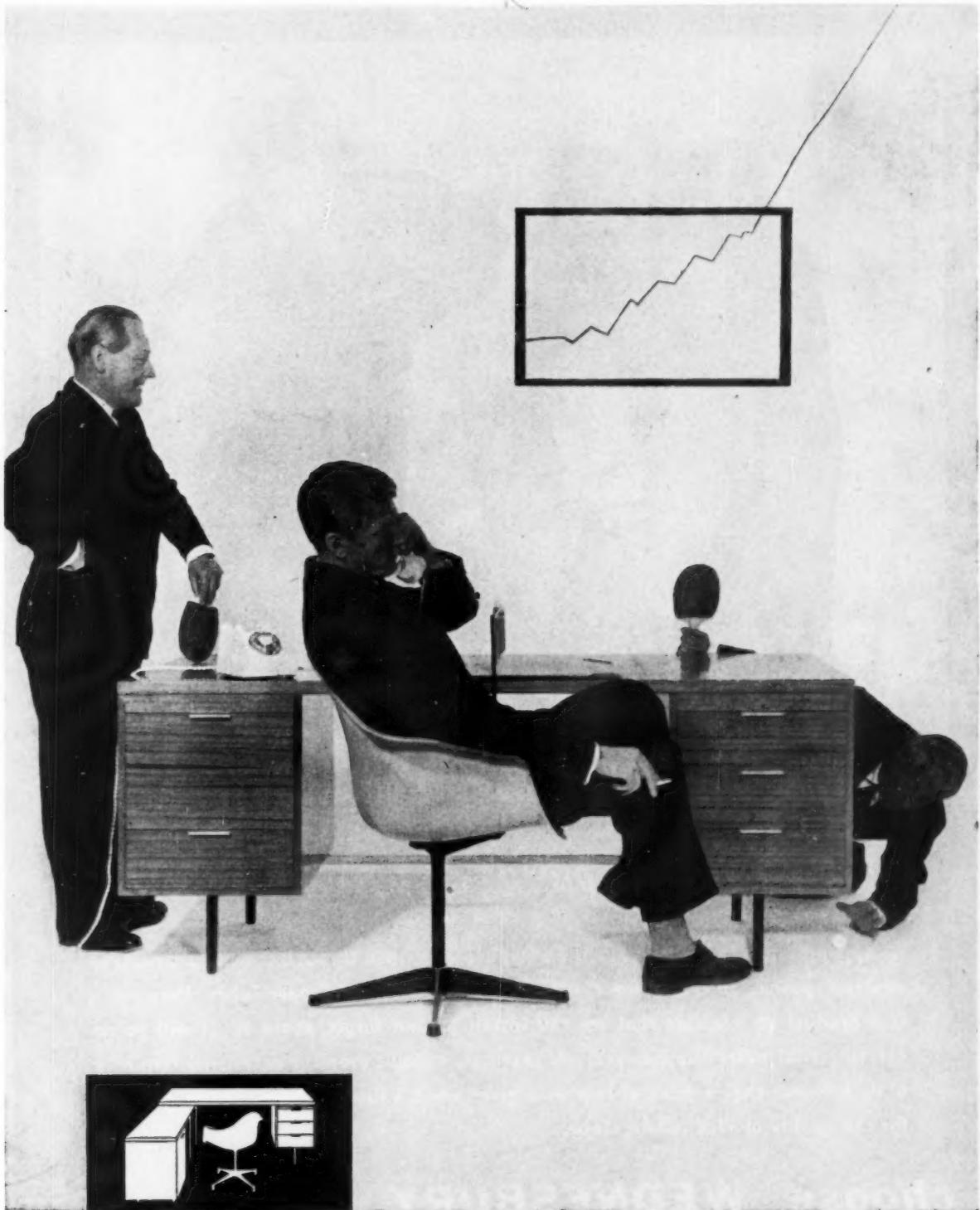
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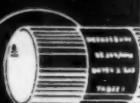
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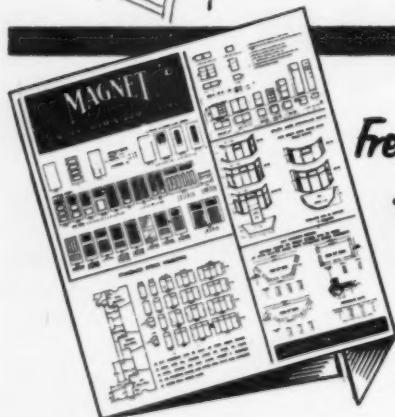
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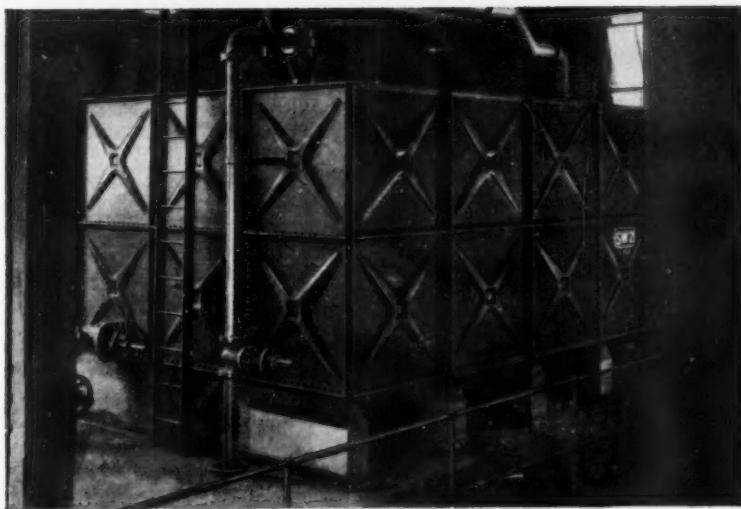
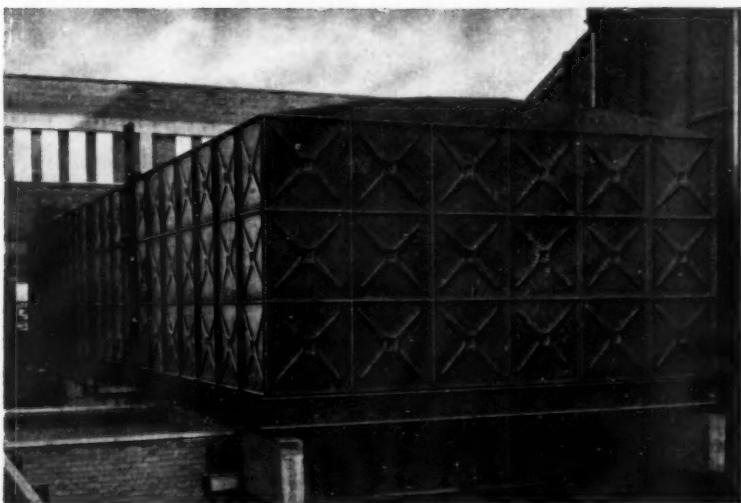


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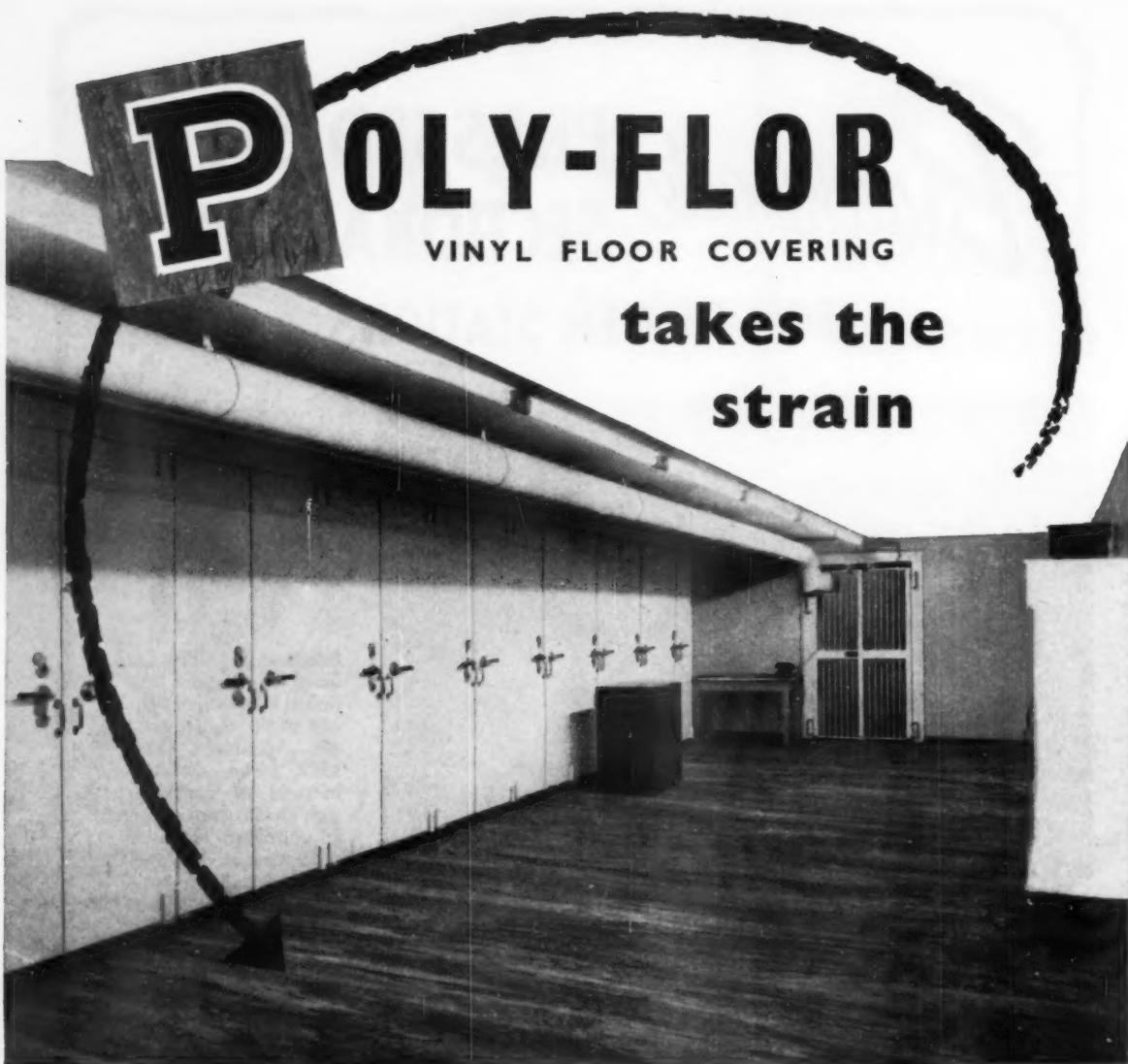
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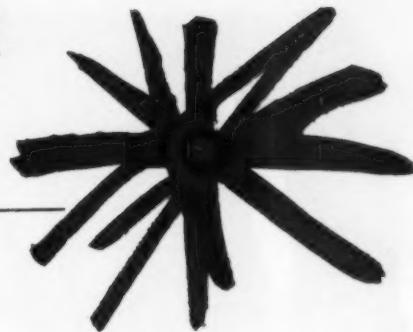
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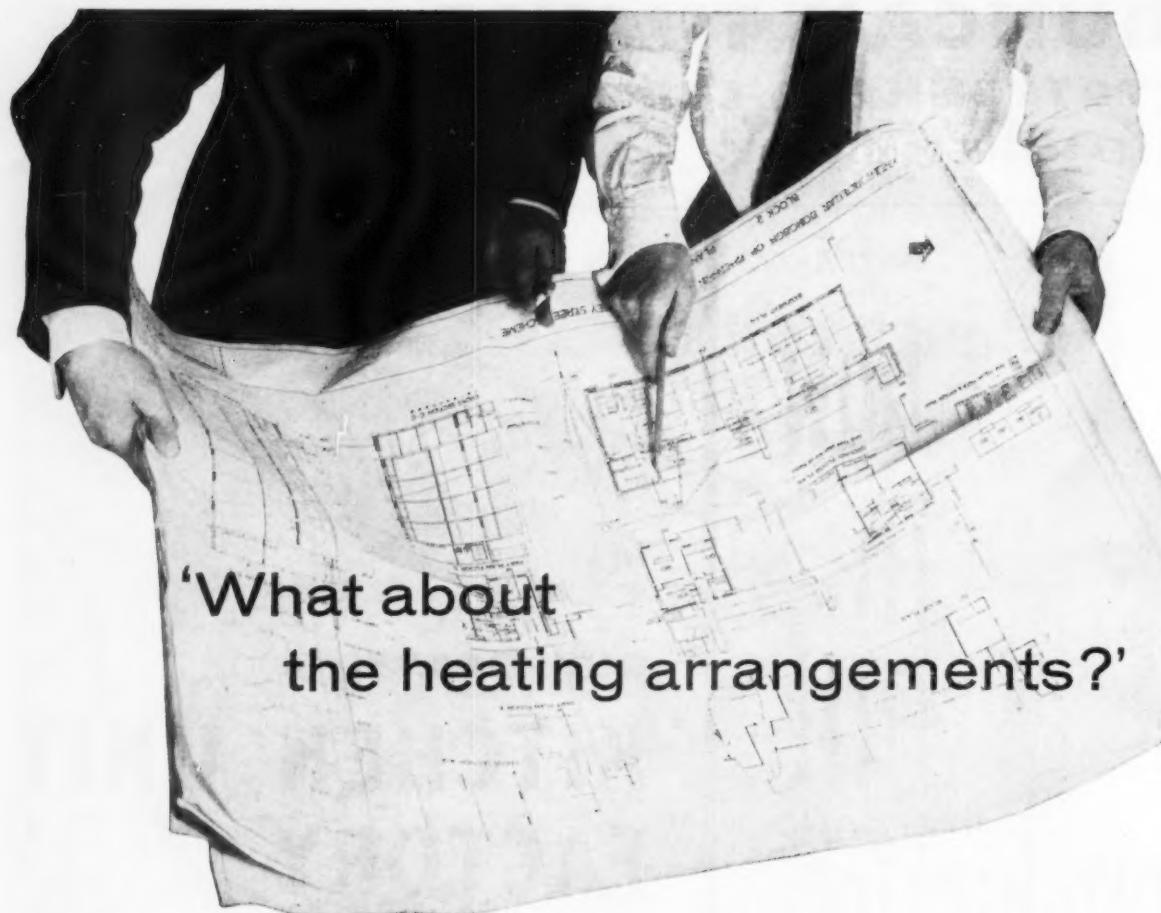
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$2\frac{1}{2} \times 2\frac{1}{2}$	$4\frac{1}{2} \times 2\frac{1}{2}$
$2\frac{1}{2} \times 2\frac{1}{2}$	$4\frac{1}{2} \times 2\frac{1}{2}$
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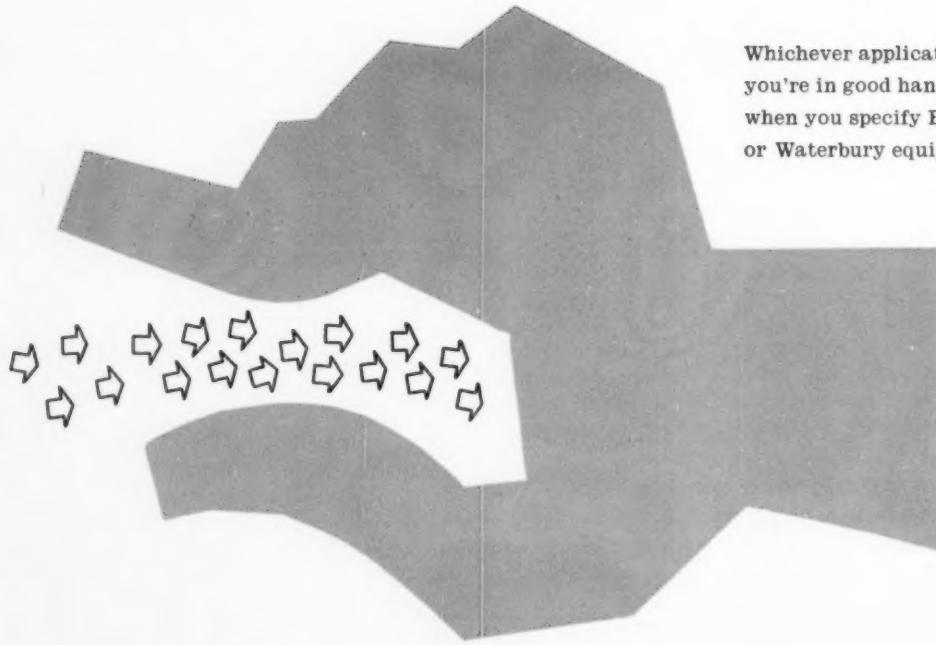
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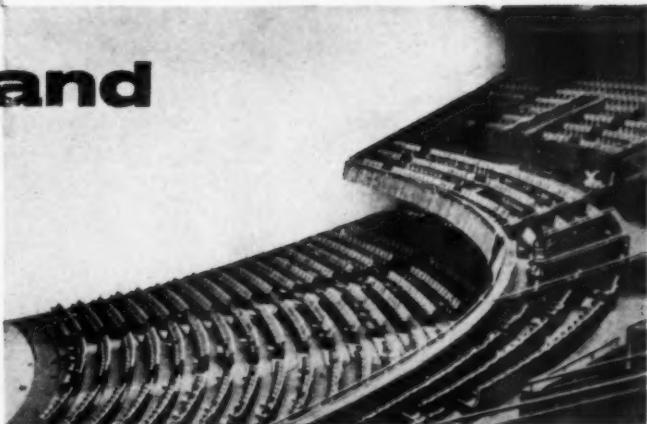


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FIG. 1

At Regent Court, Gateshead, a ten-storey block of flats, built in the shape of an "H", was completed in approximately eighteen months by Messrs. Wimpey & Co. Ltd. The block contains 160 dwellings, subdivided into 100 three-roomed, 30 four-roomed and 30 two-roomed flats, a general view of the completed

block being shown in Fig. 1. In co-operation with the Northern Gas Board, the domestic equipment installed in each flat includes an instantaneous multi-point gas water heater, a gas-fired clothes drying cabinet, a gas cooker and wash-boiler in the kitchen and convector gas fire in the living room.

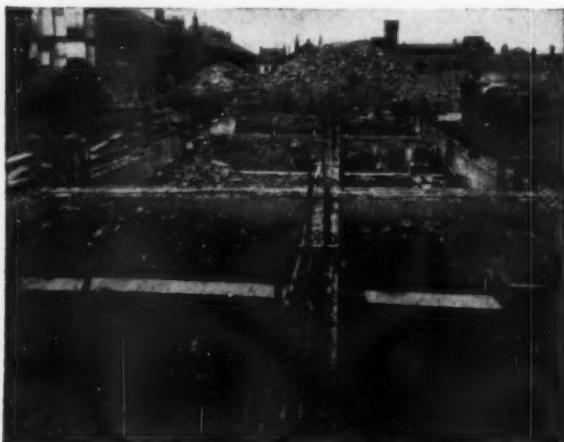


FIG. 2

General view of the ground beams of the centre block showing the horizontal ducts and base of vertical ducts.

Some time ago the South Eastern Gas Board evolved a new flue system for gas appliances installed in large blocks of flats or offices known as the SE-duct. This system was first put to practical use in the Gateshead Scheme where 16 SE-ducts were installed, each one accommodating 10 water heaters and 10 clothes drying cabinets.

The principle of the SE-duct is to ensure that sufficient air is provided for combustion of the gas used by the appliances fitted to the duct, which, at the same time, acts as a vent for the products of combustion. This means that a large number of gas appliances can be vented by a single flue.

Each duct is supplied with air from two inlets situated at ground level on either side of the building, some 35 feet apart. These inlets are contained within brick pillars 3 feet high and approximately 4 feet from the building line. They are connected to the central vertical duct by means of

horizontal ducts laid below ground level (Figs. 2 and 3).

Illustrated in Fig. 4 is a duct at ground floor level showing the wooden chute which was inserted into each duct during construction, in order to prevent any parging from falling into the base of the duct, thereby restricting the flow of air. The weight of the vertical ducts was borne by bearer blocks at each floor level, thus distributing the load to the building structure. Holes necessary to take the air inlets and flue outlets of each appliance were cut on the bench (prior to erection of the

Showing duct with holes for Ascot water heater and bearer block with supporting brickwork between floor and shoulder of block.

FIG. 5



FIG. 4

Vertical duct at ground floor level showing wooden chute inserted into duct to throw out any parging down duct.

ducts) using a mechanically driven, thin carborundum wheel. Correct positioning of the holes was achieved by the use of templates, and working from floor to ceiling on each floor. Fig. 5 shows an example of the holes ready to receive a gas water heater and also the bearer block with supporting brickwork between the floor and shoulder of the block. As was to be expected, during the erection of these first SE-ducts, a number of minor but interesting problems were encountered, all of which were simply overcome.

In order to obtain as much informa-

FIG. 3

General view showing fresh air inlets on one side of the building. Similar inlets are situated on the other side.

FIG. 7

View at roof level showing SE-duct and gas fire flue terminals.



tion as possible regarding the performance and behaviour of both the flue system and appliances fitted to it, a number of recording instruments (Fig. 6) were devised and installed on one of the ducts by the South Eastern Gas Board. These instruments measure velocity, direction and temperature of the air and flue gases in both the horizontal and vertical sections of the duct. Other instruments record the pattern of usage of all twenty appliances attached to the duct. The flats have been occupied

since December 1958 and to date a large amount of extremely useful information has been gathered.

The convector gas fires fitted in the living rooms are vented to roof level outlets by means of individual 6-inch diameter asbestos flues, protected internally against condensation, and contained within a mock chimney breast. Fig. 7 gives a view of both the SE-duct and gas fire flue terminals at roof level.

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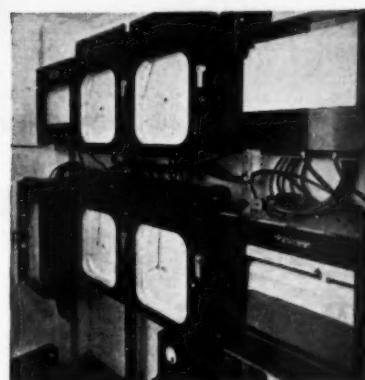


FIG. 6

View of instrument recorders:

a. Centre—four recorders from Pitot tube flow measuring instruments in both horizontal and vertical ducts.

b. Top right and left—recorders showing pattern of usage of water heaters and drying cabinets.

c. Bottom left—CO₂ recorder.

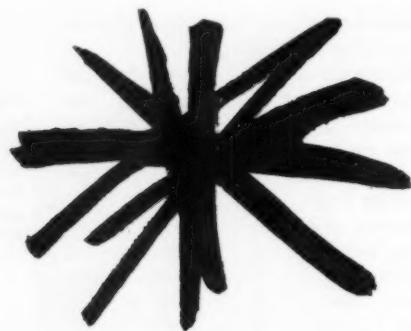
d. Bottom right—More sensitive flow recorder for low rates of flow in horizontal and vertical ducts.

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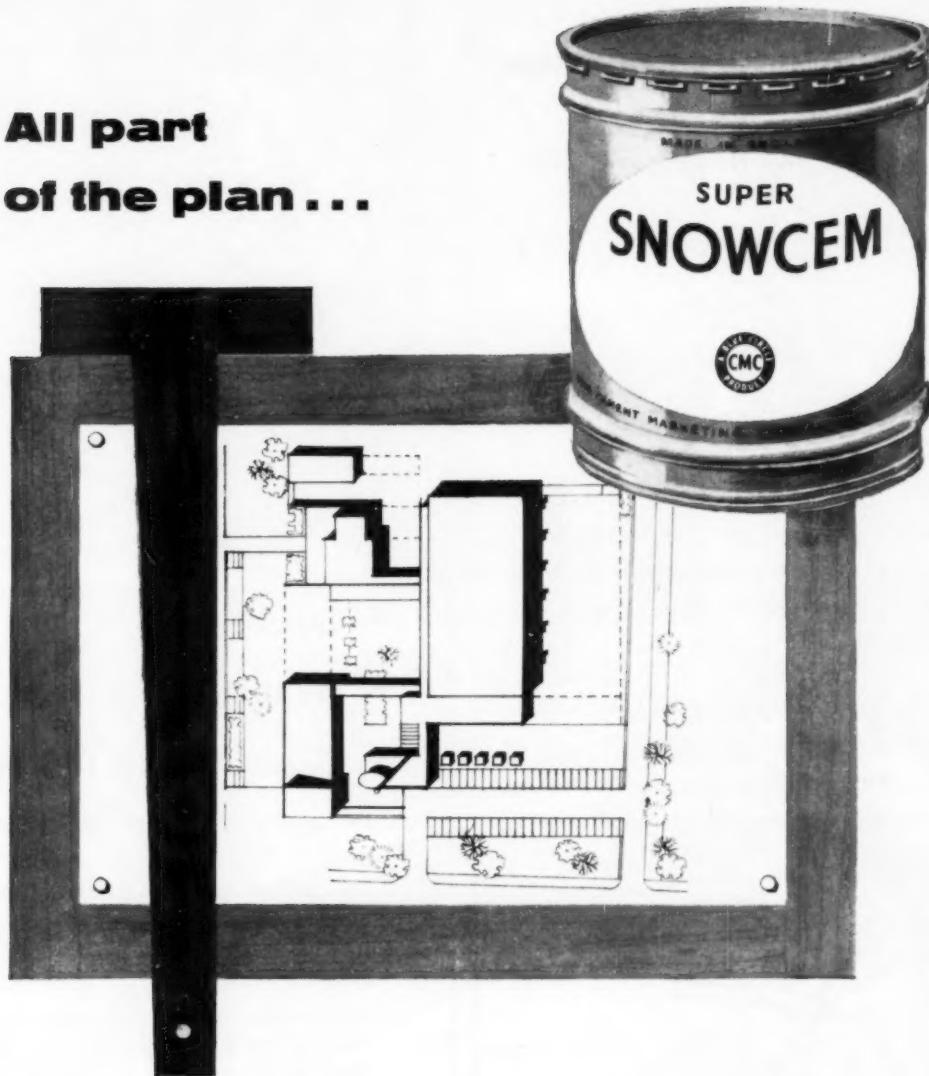
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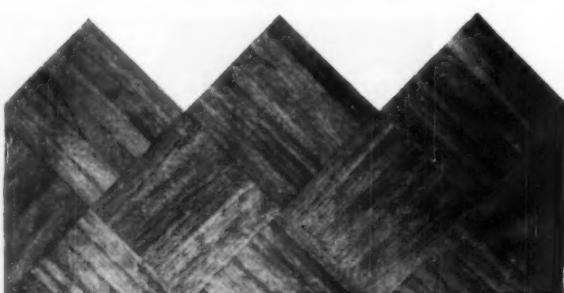
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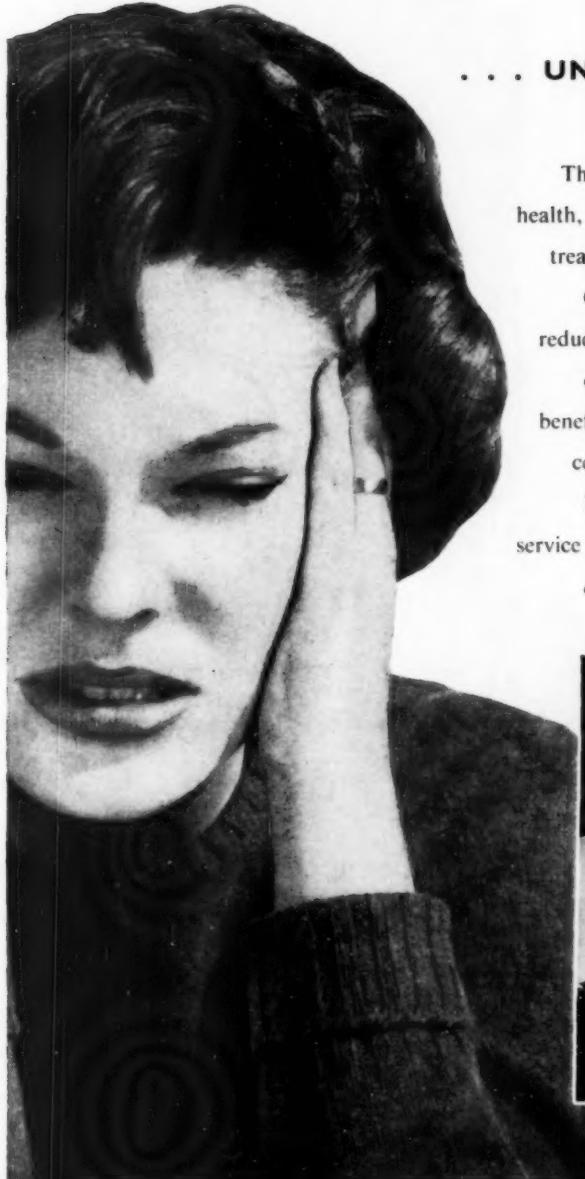
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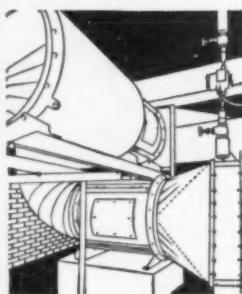
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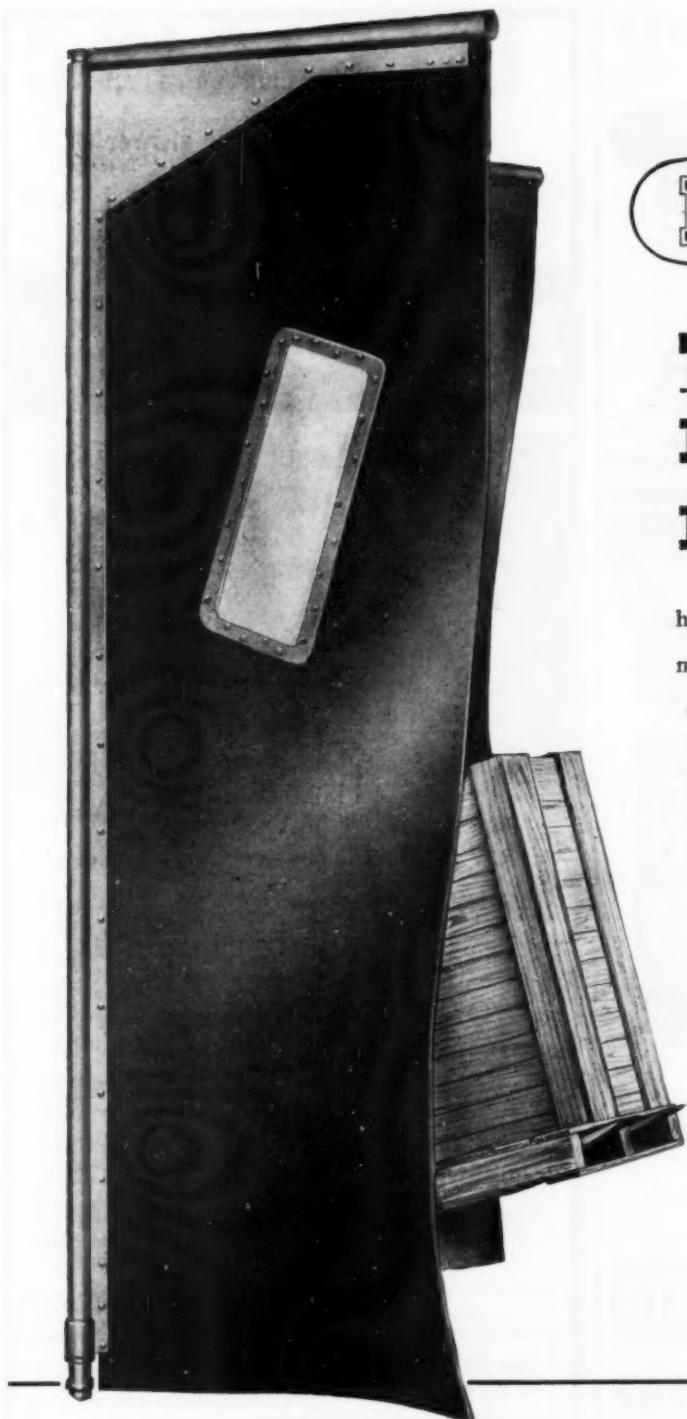
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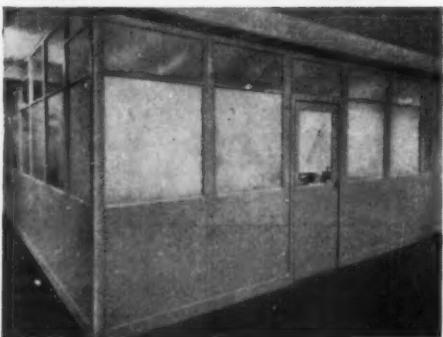


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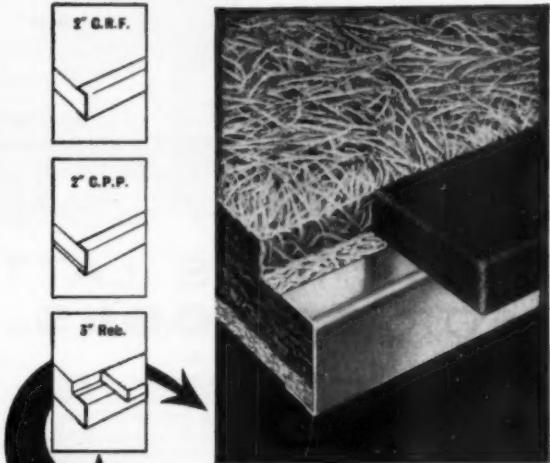
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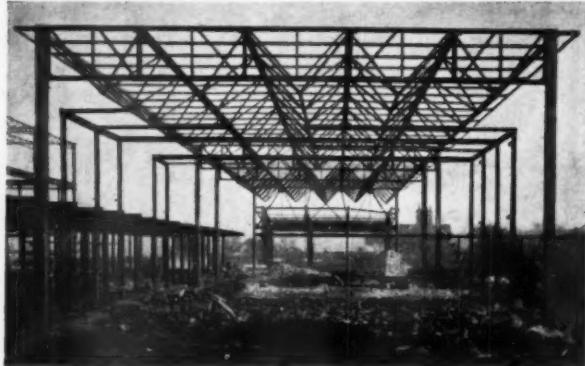


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THE NEEDS OF YOUTH

THE report was published earlier this month of the Williams Committee which was invited by the Calouste Gulbenkian Foundation "to discover, define and plan for the needs of the disproportionately high number of young people in Stevenage and other new towns".

The main recommendations of the committee are: (1) A Youth Officer for Stevenage should be appointed by the Local Education Authority as part of a new County Youth Service. (2) The Stevenage Youth Advisory Council should be reconstituted as the recognized Youth Committee for Stevenage. (3) A Trust should be set up to administer any funds forthcoming from public and private sources to complement the provision made by local authorities. (4) A site in the Town Centre should be reserved for a Youth Centre. (5) Neighbourhood Youth Centres should have a high priority and should be based on the needs of youth in each neighbourhood.

The Stevenage Development Corporation are most anxious to implement these recommendations, and have made arrangements for the formation of a Stevenage Youth Trust.

What happens from now on will be of great interest, because so much alarm and despondency has been aroused all over the world by the strange behaviour of post-war "Youth", that one would hardly believe that all adults have themselves passed through adolescence. "We have no gangs now", a witness told the Williams Committee, "but we greatly fear we may have them".

It is clearly necessary to separate in one's mind adolescents who are in the process of growing up into ordinary decent people, and those who are not.

Through the research work of two American criminologists—husband and wife—it is now

believed to be possible to spot delinquents before they land up in court. Whatever their nationality or family income, the ones who make the trouble come from homes in which the father is a harsh disciplinarian and the mother is indifferent or hostile to the child. This is necessarily a simplification but, apparently, the U.S. predictions based on this research have been verified in other countries.

This means in effect that not only has the cause of juvenile gangsterism been pin-pointed, but that the extent of the problem can be assessed. There is no need for hysteria towards young people as if they were a peculiar generation born hostile to society.

It would hardly be strange if adolescents in the incompletely new towns found them a bit dull. "The town is pretty dead", some of them told the committee, and this in spite of the very large number of societies and clubs that have sprung up in the absence of commercial entertainment.

The young require a great deal of understanding and imagination to help them achieve some part of ordinary healthy desire for adventure and romance.

They will have a chance to express themselves in the proposed new Youth Centres, which could well add a lively and valuable ingredient to the new towns. It all depends on the type of Youth Officer who comes forward, and what sort of training he has. He must be a "queen bee". It is hoped that there will be an effective link-up with adventure week-ends and travel in the few remaining areas of wild country left to us. Young people are restless to move about and see things for themselves if they can afford it.

Whatever the outcome, the Gulbenkian trust deserves our gratitude for financing the work of this committee.

EVENTS AND COMMENTS

"BUILDING MATTERS"

I have heard only two of the programmes so far put out in this series. I thought they were interesting and informative. They made me want to know more about some of the items mentioned. I imagine that this is the B.B.C.'s intention—to promote curiosity and stimulate demands for information. The present make-up of the programmes gives a maximum of eight minutes for any one subject. This is clearly too short to give much detailed technical information. Longer periods would destroy the idea of a magazine programme. I have heard complaints that the material is too elementary for the industry and too technical for the public. Other people demand to know at whom the programmes are aimed. This is a fair question. The programmes are said to be for all those interested in building and this, maybe, is too wide a field. To design a programme to hold the attention of the managing director of a large contracting firm and a plumber for half an hour would be impossible. Architects and surveyors are also interested in building. Perhaps in an effort to find something for everyone, the organizers are pleasing very few. However, my bet is that if all the complainers were to listen more carefully, they would learn quite a lot. I think it may, in the end, be necessary to narrow the beam of the programmes' aims and to direct it, now here, now there, by weeks. But even that has the disadvantage that people would not develop the habit of listening each week.

The B.B.C. has made a brave start and needs help and advice, not niggling criticism. If you have ideas, Bob Gunnell, the producer, would like to hear about them.

THERE'S A STATUE AT THE BOTTOM OF OUR GARDEN

The unveiling of pieces of non-memorial sculpture is, unhappily, not a very common occurrence anywhere, so that when it occurs almost within sight of one's front door it is an event of some importance. A number of local residents were evidently of the same opinion, and there was a respectable crowd at the ceremony. The sculpture, the work of Karel Vogel, is part, how large a part I do not know, of the L.C.C.'s £20,000-a-year expenditure on works of art to embellish buildings and open spaces, and is the first such work to be commissioned for a road improvement. It has been placed near St. Peter's Church, Hammersmith, in an open space beside the new Great West Road. The ceremony of unveiling was performed by Mr. E. E. Woods, O.B.E., J.P., vice-chairman of the L.C.C. and an alderman of the Hammersmith Borough Council. Mr. Richard Edmonds, chairman of the L.C.C.'s Town Planning Committee, presided, and, in introducing Mr. Woods, spoke of the council's determination to see that the new motor-roads not only did not ruin our townscape but were properly designed, and were embellished with good street furniture and planting. He was speaking within a few hundred yards of the boundary between the L.C.C. and Middlesex C.C. areas, and could quite easily have compared the care and skill of his council's professional advisers with the, to say the least, dull and second-rate detailing of the road's appurtenances once it passes into the Middlesex area.

We now have a new and thrusting Minister of Transport, who will most certainly set about our roads' pro-

gramme with furious energy. I hope he will realize the dangers involved, particularly to our large towns. I heard only last week of a scheme for a traffic artery to run at high level across Portland Place and through Marylebone. This was probably only a rumour. If it was not, we would like to hear about it, please. The *Architectural Forum* for October carries an article on motorways in towns entitled "Expressway Blight". Cities with expressways in the offing should look at Boston's central artery for a lesson in how not to do them. I hope Mr. Marples will see it and that he will not be seized with the current American mania.

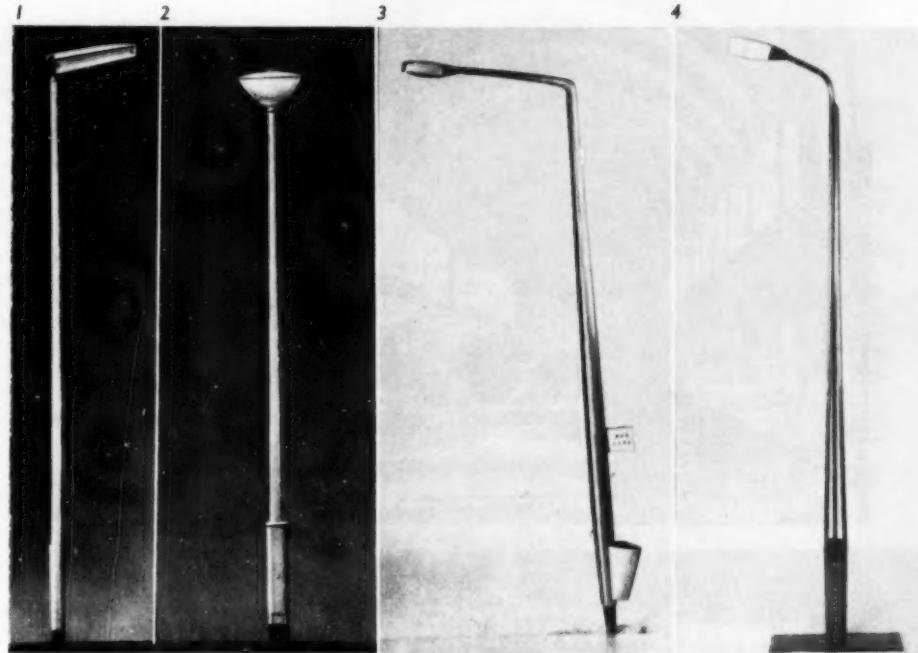
To return to the sculpture (which is illustrated on this page), I find her rather a satisfactory piece from many angles, although her twisted pose is inclined to give one a stitch when looking at her. She stands, or rather balances, on a podium, set in the middle of what was Black Lion Lane, and in a way she might be taken as a memorial to that now truncated thoroughfare. The new road has divided it and its inhabitants into north and south with the two most important institutions, the Black Lion and Sir Alan Herbert, who lies just round the corner, on the south side.

The square, which used to be called the Red Square, is not what it was politically or architecturally, and the L.C.C. is wondering what it can do about the down-at-heel appearance of some of the houses, all of which are included in a preservation order. When I read that questions had been asked in the L.C.C. about the state of the houses in the square, I ran into the street to see whether my aunt's was worse than others. It is certainly not the best preserved, but at least it retains its architectural features. One house has lost its pediment and several their cast-iron-fronted balconies. What is needed is some public-spirited local architect who will assemble all the owners and whip up their enthusiasm for a "Norwich Experiment" in Hammersmith. I must see if I can find out. Perhaps the Civic Trust would help such a scheme.

Karel Vogel's sculpture beside the new Great West Road, Hammersmith



Prize winning designs in the competition for aluminium street lighting columns organized by the A.D.A. From left to right, 1st prize (£250) (1) and (2) by J. Howe (design consultant to A.E.I. Lamp & Lighting Co. Ltd.) in conjunction with Reynolds T. I. Aluminium Ltd. and J. B. Dwight, Civil Engineering Dept., University of Birmingham. 2nd and 3rd prizes (combined £150) divided between F. J. B. Rowley (3), student, College of Art and Industrial Design, Newcastle upon Tyne and S. L. Devlin (4), student, R.C.A., London. Student's prize (£75) won by last two



"JONES THE GAS"

I have had a soft spot for the Wales Gas Board ever since I discovered that it was trying hard to improve gasworks' architecture. I have just read the board's annual report for 1958-59. In some ways it is a sombre document and contains gloomy thoughts about the future of the coal industry, but it is written with such punch and ebullience that it is difficult to put down, once you pick it up. I realize that this is high praise for a chairman's report, but it shows that company business can be written-up in readable form.

The board has continued its policy of promoting good design, both in its "works" and in its showrooms, and says that it has greatly benefited by bringing in the architect as partner to the engineer, at the earliest stages of a project. It claims that its buildings are not only aesthetically pleasing, but efficient as engineering. Furthermore, the report sharply criticizes "less creditable gas industry design".

Congratulations to the Wales Gas Board for its pioneering work. Congratulations, too, to its chairman, Mr. Mervyn Jones, who, if he did not actually write the report, admirably imbued someone with his own spirit. Long live "Jones the Gas"!

CLEAN AIR

The National Society for Clean Air celebrated sixty years of fighting against smoke, with an international conference and exhibition at the Seymour Hall last week. The society has frequently changed its name and is even now better known as the Smoke Abatement Society. Nearly seventy papers, contributed from all over the world, were discussed. It is a sad reflection on the Governments of the past 60 years, that, in spite of the existence of this society with its small, but enthusiastic body of supporters, so little has been achieved. It now seems, however, that clean air is becoming news and of official importance. In opening the conference, Mr. Henry Brooke, M.O.H.L.G., said: "To get the pollution out of the air is a huge task, but every

year is going to bring us closer to final victory. The whole world is realizing that the cost of dirty air, in terms of material economic damage, and extra domestic work, and illness and even death, is gigantic. It needs the giant strength of every nation to defeat and destroy the dirt. But with everybody's help and determination it can and will be done". Did I hear the ghostly voices of the society's founders and past supporters saying, "Well, get on with it, then!"

ST. CATHERINE'S COLLEGE

You will have read in the press that Philip Dowson, acting as Arne Jacobsen's representative here in connection with the building of St. Catherine's College, Oxford, has resigned. He told my agent that he found he had no real authority under his terms of appointment and that it was too difficult to supervise a building in Oxford while living in London and at the same time working for Ove Arup. I understand that no replacement is to be made.

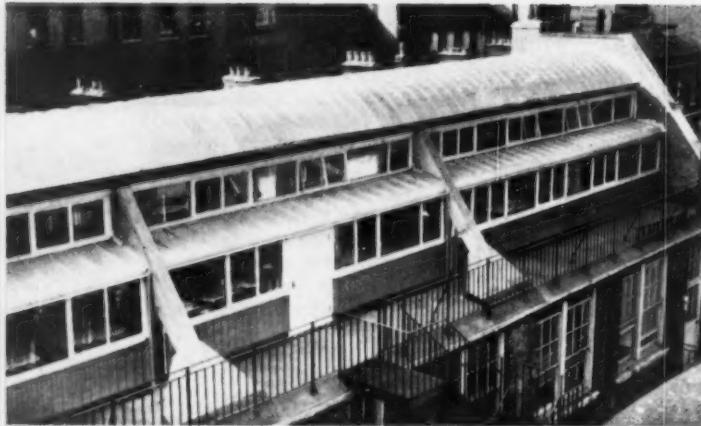
THE CENTRAL SCHOOL AT THE CEYLON TEA CENTRE

The L.C.C. Central School of Arts and Crafts is having an exhibition of the work of its part-time teachers at the Ceylon Tea Centre. It will be opened this afternoon by Sir Norman Kipping, chairman of the Federation of British Industries. The exhibition, which will be open until November 14, will show some of the professional work of 40 members of the staff of the school, and will include furniture, packaging, pottery, textiles and the new G.P.O. coin box.

EXTENSION TO THE A.A. SCHOOL

A floor has been added to the block of studios in Morwell Street, at the back of the main A.A. buildings, in Bedford Square. The extra space is used as a studio for the fifth year. Other rearrangements include an extra lecture theatre in part of one of the old studios and a much-needed ventilating system to the old lecture

Continued overleaf



New fifth-year studio for the A.A. School of Architecture

Events and Comments (continued)

halls in the basement. This should also make dancing there more bearable.

The new addition, which was designed by the principal, Michael Patrick, with Nies Lisborg as structural engineer, is interesting. The roof consists of a laminated timber segmental vault made in three parts, which are supported by end gable walls and two intermediate reinforced-concrete arches. The vaults, which were largely made by the students as part of their practical training, are bolted to the arches. They are partly inside the building and partly outside, providing some tricky flashing problems. The studio is painted in bright colours and is, I hear, liked by the students.

SHUT UP YOURSELF

Although I am entirely in favour of peace and quiet (see this column, 14.10.59) and although I find noise the most wearing thing about modern life, I positively gallop to the defence of rag-and-bone men, or, indeed, of any other street crier, provided that his cry is not

aided by a trumpet, bell, set of chimes, megaphone or public address equipment. Street cries go with quiet, they soothe, satisfy, and comfort. I admit, however, that Madrid lottery ticket sellers, advertising their wares in a piercing scream at three in the morning, may be going too far, but the Noise Abatement Society should take notice that if it attacks street cries, and for that matter street music, it will lack my support. It will evidently also lack the support of Mr. R. E. Clarke, whose letter appears on this page. Mr. Clarke and I appear to agree on some points, but not on others. He mentions the strains of music from an open window on a warm summer night! He evidently lives in a detached house in a large park, or perhaps in a remote district whither other people's radio sets have not yet penetrated. He finds the exhaust notes of certain of the more lethal types of mechanical transport piquant. I think he must be deaf without knowing it.

ABNER

Correspondence

Shut Up!

Sir.—I sincerely hope that the A. & B.N. is not seriously considering accepting the invitation to join the Noise Abatement Society. (A. & B.N., October 14, 1959.)

Must the aural, as well as the visual character of our towns and cities be spoilt by sterilizing laws? Can the Society really wish to destroy the "tiddly-om-pom-pom" brass bands and barrel organs? Do they not enjoy the strains of music from an open window on a warm summer night; and would they rather have "a best prices for sewing machines" pamphlet stuffed through their letter box than the distinctive cry of the rag-and-bone man? As for the unsilenced scooter, or the snarl of a high powered sports car, surely these add piquancy to the dull monotony of silenced motor engines.

The Noise Abatement Society should find their red and white stickers returned—"Q.P."—Queer people.

Yours, etc.,

R. E. CLARKE.

Staines Bridge

Sir.—Sir Winston Churchill, at Churchill College, Cambridge, last week said: "We must depend for our survival on our brains, on skilled minds that are at least proportionately equal to those in the United States and in Russia".

Are we as a country to demonstrate these sentiments by building a bridge 20 years out of date?

As an architect I know that I voice the feelings of my contemporary fellows when I say that I am shocked and utterly disillusioned to discover that our Government could go through with a scheme which must, in this atomic age, be the laughing stock of the whole country and of our visitors from all over the world who will pass over and beneath this bridge.

Much as we all respect and admire the work of the late Sir Edwin Lutyens, we must recognize the fact that his 20-year-old design is not in harmony with the spirit or the economy of our time.

It is to be hoped that even at this eleventh hour Mr. Marples—himself, I believe, an engineer—will bring reason and practical common sense to bear upon this vital and urgent problem.

The Royal Fine Art Commission is said to have approved the design of this bridge. Can it be categorically stated that this approval was given by the present Royal Fine Art Commission, or was it approved by one which sat 20 years ago? This question cannot remain unanswered.

Yours, etc.,

H. REGINALD HYNE, A.R.I.B.A.

TOWN AND COUNTRY PLANNING ASSOCIATION

DIAMOND JUBILEE CONFERENCE: "CHALLENGE TO PLANNING"

Speech of the Minister and Permanent Secretary, Ministry of Housing and Local Government

Minister's Speech

The conference was opened by Mr. Henry Brooke, the Minister of Housing and Local Government, who discussed the Government's pledge to review afresh the administrative system of town and country planning, with the aim above all of reducing delays. Mr. Brooke said that hardly a person believed any longer in complete *laissez-faire*, the antithesis of planning. In principle, the nation had learnt its lesson; it wanted green belts preserved, good agricultural land saved from the builders, beauty spots and coast lines protected and the jumble of houses and factories avoided.

However, he wanted to eliminate vagueness from planning administration. People have lost patience with officials and experts and enthusiasts who use vague language which creates a suspicion that they are pursuing not clear concepts but their own partial prejudices. The Government wanted to review afresh the administrative system of town and country planning, with the aim above all of reducing delays.

Mr. Brooke asked what contribution the association was going to make to the restoration of vitality to those parts of our country which have suffered locally from setbacks and unemployment, which therefore are the real source of the flow of population southwards and eastwards. He felt it was sensible social policy to try to encourage appropriate development in areas which are sick through lack of full employment, or are threatened by serious unemployment through new developments in the pattern of industry. The Government had declared this to be a main aim of its policy, and its plans would be made known in greater detail before long.

The Government could maintain and maybe intensify the restriction of further industrial development in the regions which are already over-full—Greater London and the Midlands in particular. On the positive side it could improve and strengthen the inducements to industries to establish themselves in places and areas that are facing difficulty. Some of these were his special concern in his capacity as Minister for Welsh Affairs.

While he had always been a supporter of new towns, he did not feel that more new towns should now be started everywhere. The wiser course might be to try to build, and to build well, round several smaller towns that are there already. To find a site suited to major development on new town scale, you have to discover a large area where it is likely to be possible to attract industry and where it will entail not too great a sacrifice of open country that can ill be spared.

He regarded urban renewal as the greatest and hardest and most urgent challenge to planning in this day and age. The association had prided itself in the past on being ahead of Governments in its thinking. Here was a fresh chance on offer to them. If they would crusade for old town planning as well as country planning and new town planning, the second 60 years of the association might place on record even finer achievement than the first.

Dame Evelyn's Speech

Dame Evelyn Sharp, in speaking on "Development Trends and the Development Plans", said that the Ministry were still in the early stages of trying to assess both the validity of the plans and what the development trends of the last few years meant, in the way of changing the assumption on which the plans were made. They had no intention of putting out any general advice about this for the first quinquennial submissions which were now beginning to come in, or to suggest any revolutionary alterations except where the pressure of events or some major

local change had thrust on the planning authority the need to revise its ideas now. They did, however, expect some additions to be made to the first plans in the way of town maps for overspill areas, and green belts round some of the larger provincial cities.

At the Ministry, they thought that the intentions that lay behind some of the proposals in the plans might well be clarified. The statement of intentions and principles was lacking in many plans or parts of plans, and this led to uncertainty, not only in the public mind but also in the administration of the authorities. The Ministry believed that the written statement which was part of every plan ought generally to be made into a plainer statement of policy.

In the second review there would have to be in some areas—though not in all—some pretty thorough re-examination, both of basic assumptions and of the provision that ought to be made.

The association's director suggested to her that the Ministry did not give to the planning authorities as much information as they might on "the trends in population growth, industrial expansion, housing demand, etc.". He said also that "considerable guidance might be necessary on the extent, duration and incidence of major demands for space for development over the next five to 15 years".

Now the Ministry thought it did give the planning authorities all the information available about population and employment trends in their areas, including statistics about the natural increase of population, migration, employment figures, and industrial development certificates. They tried to show what these figures indicated for the future, and where there was a conurbation or some other natural region in question, to present a coherent, statistical picture for the area.

Development Trends

The most conspicuous development trend, Dame Evelyn said, since the first plans were prepared has been the unexpectedly large increase of population. Since the 1951 census there had been an increase of about 1½ million people in England and Wales, and the present estimate was that the population would increase by nearly three million over the next 15 years. This was almost double the increase on which the plans had been based. This steady increase in our numbers indicated a steadily increasing pressure on land. The pressure had been increasing from other causes also. The number of separate households was growing even faster than the number of people, as the average age of the population rose and the average size of households became smaller. This meant an increasing demand for separate dwellings. At the same time living standards were rising; much of the demand for new houses was a demand for better houses. With an expanding economy and a high level of employment, people could afford better and more spacious housing and would continue to demand it.

It was Government policy to encourage the building of houses for owner occupation and the question of how to provide for these without wrecking the effort to contain the growth of the great towns was one of the most difficult problems facing planning authorities. Many planning authorities, when they came to the second review—some perhaps in this first review—would have to make further provision for house building by private enterprise, but they must do it by compact grouping round existing villages and small towns, never relaxing their grip over the open countryside.

The increasing pressure on land arose, too, from the ever-increasing demands of industry. About a million new jobs had been created in the last six or seven years,

"CHALLENGE TO PLANNING"

Continued

and meanwhile the tendency in industry was increasingly to need more land per worker employed than was foreseen ten years ago. There were demands, too, for the great new roads—the measure of which we did not yet know, and enormous demands for car parking and garaging. And there were other demands—for power, for defence and so on—constantly increasing.

Regional Trends

The population increase has been greater in the south-east and the midlands than in other regions. In fact half the national increase, about 700,000 people, had been added to the population of south-eastern England since 1951, and, moreover, about a third of it had come to live within a 40-mile radius of Charing Cross. Of the one million new jobs that had been created in these last few years, about 40 per cent had come into the London region, including, of course, the eight new towns, though this region contained only 27 per cent of the population. The conference might well think that these two facts together meant that the great Barlow policy of a better national distribution of industry and population was failing, and that a determined new effort was needed to revive the central tenet of post-war planning policy.

We should not, however, underrate what has been achieved. The drift to the south-east in the fifties has been infinitely smaller than the same drift in the thirties. For every seven people who left Wales during the thirties, only one had left during the fifties. For every three people who left Durham, Northumberland and Cumberland, only one had left during the present decade.

The big increases in urban employment were mainly accounted for by office employment; the distribution of industry policy had been relatively successful. For every five new jobs in the London conurbation only one had been in a factory requiring an industrial development certificate. This problem of increasing office employment in London and other great cities—but most of all in London—is one to which the association had already given prominence and it was an extraordinarily difficult one. Control alone could not do enough. What we needed to do was to persuade the employers to take some of their work elsewhere. The advantages to both employers and employees in getting out of London were so obvious and we had to keep stressing them.

Local Trends

The main built-up area of Greater London had been losing population at the rate of about 60,000 a year. The outer suburban fringes had continued to grow—as they had done in every conurbation, but the really big increases had been further out, in green belt settlements, in the new towns and beyond.

To this extent, therefore, we were achieving dispersal—local dispersal. But the really disturbing part of this story was that the dispersal of the population had not been matched by dispersal of employment—indeed, the reverse. That was now our real worry and it was a very serious one. For in Greater London, and to a less extent in the provincial conurbations as well, the awful burden of the journey to work was simply intensified.

Architect-Planners

Speaking of urban renewal, particularly of the older industrial towns of the north, Dame Evelyn suggested that the authorities of these towns should plan more boldly. Some of them might need to revise their ideas on the people they employed to make their plans. Town planning was, generally speaking, a job for an architect planner. She knew that some very fine town plans had been produced by people who were not, in fact, qualified architects, but she thought that they were people who,

whatever their qualifications, had the architect's eye—the vision of what the city might some day be made to look like. It is looks they were considering. Functional efficiency, traffic and car parking solutions were, of course, essential, and no town plan could be one man's job alone, but when they talked of "urban renewal" they were thinking above all of a new look.

The first thing she would do if she were the authority of an old, decayed, crowded, unattractive town would be to hire—if she had not already got him—the best town planner she could find; if possible one who had already shown his ability elsewhere. She would spare no money on this; it was a small investment for a very big prize. She would get her engineer to work in concert with him, and ask them to produce both a plan and a programme, and then, if she were satisfied with what they proposed, inch by inch she would fight her way along.

Recently there had been signs that some of the authorities of the great provincial towns were backing down on the policy of overspill, partly for financial reasons, partly because of the real difficulties in making overspill schemes "go", partly because with local government reorganization in the offing authorities were apt to feel that now or never was the time for boundary extensions. Some of them were deciding to pursue, instead of overspill, a policy of higher densities and peripheral expansion.

She thought that a review of urban densities might well be right, though she expected to be savagely attacked for saying so. She was certainly not advocating uniformly high urban densities, but with the pressures on land, the economic difficulties of shifting employment, the terrifying prospect of continually eating up more and more of the countryside, the real advantages of concentration, it must be right to make sure that the maximum use compatible with good living conditions was made of land within the towns.

Coming Events

The Incorporated Association of Architects and Surveyors.

October 30, at 7 p.m. Wealden Branch annual dinner and dance. The president will attend. At the Cavendish Hotel, Eastbourne.

The Architectural Association

October 28 to November 20. Exhibition of paintings and drawings, by members and students. At 34/36 Bedford Square, S.W.1.

Royal Institute of British Architects.

November 3, at 6 p.m. President's inaugural address and presentation of 1958 London Architecture Bronze Medal. At 66 Portland Place, W.1.

B.B.C. Network Three. "Building Matters".

November 3, at 7 p.m. A. G. Day will talk on the cures for damp. E. G. Dean will describe how "Codes of Practice" are drawn up and their importance to the architect and builder.

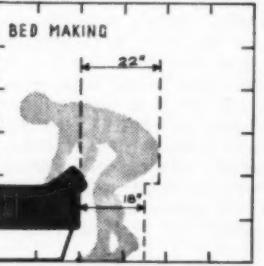
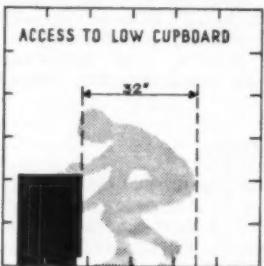
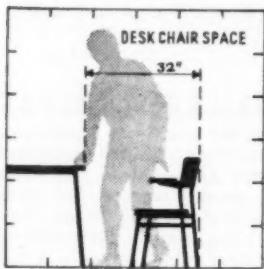
Reinforced Concrete Association.

October 29, at 6 p.m. West of England Branch. "The Architectural Expression of Structural Concrete", by W. A. Gibbon, M.A., A.R.I.B.A. At the New School of Engineering, University of Bristol.

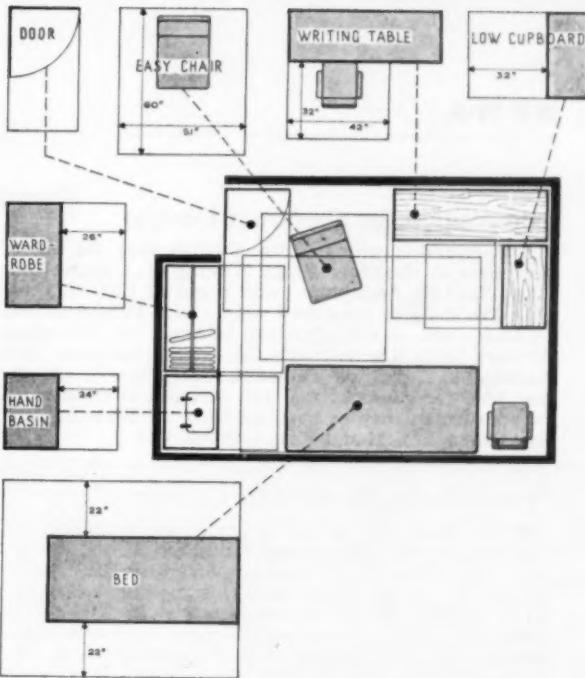
November 3, at 6 p.m. North-Western Branch. "Reinforced Lightweight Concrete", by A. Short, M.Sc., A.M.I.STRUCT.E. At the College of Technology, Sackville Street, Manchester.

Manchester Arts Festival.

November 9 to 28. Exhibitions of modern art, rare books, architecture and design displays in leading department stores. The programme includes all types of music—opera, concerts, recitals, solo, choral and instrumental; controversial drama and poetry readings; and a "Jazz Panorama".



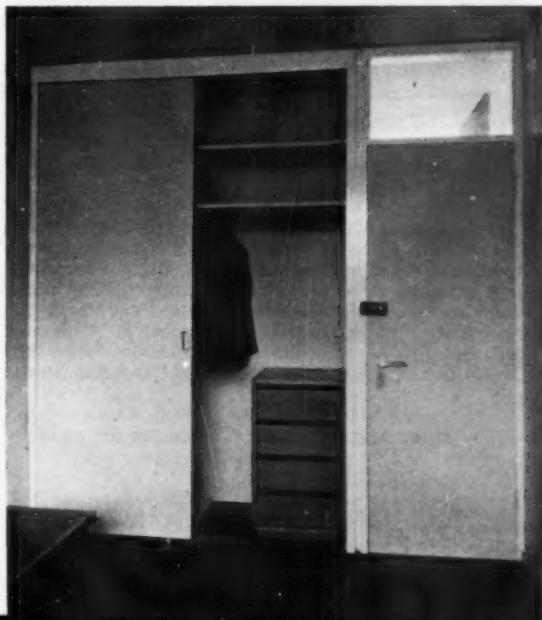
1,500 study-bedrooms are to be provided during the next 3-4 years, by the L.C.C. This is part of an expansion programme for provision of halls of residence in training colleges, polytechnics and colleges of advanced technology. Cost limits on the project virtually lay down a maximum floor area of 140 sq ft per room and a maximum furnishing cost of £100 per room. A standard group of free-standing furniture has been designed, and only the wardrobe and washbasin will be built-in



Right, free-standing furniture, consisting of: 3ft divan; work table and storage unit; upright chair; easy chair; 3ft coffee table; two bookshelves in 3ft units; bedside rug and curtains. Lighting is by a fixed ceiling point and separate reading lamp

Left, investigations were made into the amount of space needed for each piece of furniture. Adults of varying stature were observed carrying out different operations. The maximum projection was recorded by a projector throwing a shadow onto a screen, marked out with a corrected scale

The wardrobe and washbasin are in adjoining compartments enclosed by a pair of sliding doors. The chest of drawers within the wardrobe can, if necessary, be placed outside. Storage space is provided



L.C.C. FURNITURE FOR STUDY-BEDROOMS

Design team : Hubert Bennett, Architect to the Council. F. G. West, Deputy Architect to the Council. D. C. H. Jenkin, Senior Architect, General Division. P. E. Jones, Assistant Architect, General Division. Frank Height, Douglas A. Webb, and Robert Riden, Furniture and Display Section

NEWS

Competition for Shopfront Designs

A competition with the object of showing the use of bent glass in storefront design is being sponsored by the Glass Benders' Association, with prizes of £200, £75 and £25. The assessors are John Reid, A.R.I.B.A., Fello Atkinson, A.R.I.B.A., and L. R. Percival (director of Pilkington Brothers Ltd.). The last date for entering has now been extended to 5 p.m. on Thursday, December 31, and the time limit for questions has been extended to October 31. Full particulars may be obtained from the Glass Benders' Association, at 6 Mount Row, London, W.I.

Prince Philip Honours Sir Gordon

Prince Philip will attend a dinner on November 18, organized by the Design and Industries Association for Sir Gordon Russell. Sir Gordon retires from the directorship of the Council of Industrial Design at the end of this year and then assumes the presidency of the Design and Industries Association, one of the oldest voluntary bodies standing for the promotion of good industrial design. The dinner is to be held at the new Clothworkers' Hall, Mincing Lane, London, and Lord Conesford, president of the Design and Industries Association, will be in the chair.

The decision of Prince Philip to attend this dinner and propose Sir Gordon's health no doubt arises from His Royal Highness's sustained interest in the work of the Council of Industrial Design. He opened the Design Centre, has regularly presented the Design of the Year Awards, and personally instituted the Duke of Edinburgh Prize for Elegant Design.

New Industrial Estate at Whitstable

A new industrial estate is to be built at Whitstable, Kent, including a new dock for sea contact with the Continent and the Scandinavian countries (there is already a regular commercial air-service at nearby Manston airport). The estate is being developed as a "model" project, with its ornamental pools and wide tree-lined lawns and avenues, by General Trade Estates Ltd., London. Edward Mills will be responsible for the general elevation oversight and will also supervise the landscaping of the avenues and walks.

25-Storey Melbourne Office Block

A 25-storey office block in Melbourne, costing £A6 million, is to be constructed by Taylor Woodrow in conjunction with an Australian firm. The scheme includes about half a million sq ft of offices, shops, a roof-top restaurant and parking for 500 cars. The whole of the ground floor areas will be planned round an open piazza. The architects for the scheme, working in conjunction with London consultants, will be Leith & Bartlett, of Melbourne.

House-builders' Conference

Technical developments in post-war housing (with particular reference to whole-house heating and new materials for house-building; home ownership and the use of land; the housing market and selling techniques) are the main subjects to be discussed at a one-day conference, arranged by the Federation of Registered House-Builders at the Connaught Rooms, on Thursday, November 5. All house-builders are invited to attend. Application forms are obtainable from the Secretary at 82 New Cavendish Street, London, W.I.

The conference will follow the annual dinner of the federation, at the Mayfair Hotel, London, on the previous

evening, when the Right Hon. Derek Walker-Smith, Q.C., will be the guest of honour.

B.S.I. President

Mr. R. E. Huffam has been re-elected for a second term of office as president of the British Standards Institution. He was, until his recent retirement, United Kingdom co-ordinating director of Unilever Ltd., and he also holds office as chairman of the B.S.I. general council. The three deputy-presidents, who were re-elected, are Sir Roger Duncafe, Sir Herbert Manzoni (city engineer of Birmingham), and Mr. John Ryan (vice-chairman, Metal Box Co., Ltd.).

The following were elected from the building division to serve on the general council: Mr. F. Bloomer (director and secretary, British Sanitary Fireclay Association), Mr. E. P. Lawrence (managing director, The Rothervale Trading Co. Ltd.) and Mr. P. O. Reece (director, Timber Development Association).

R.I.B.A. Trust Prizes, 1959

Four R.I.B.A. (Archibald Dawnay) Trust Prizes of £100 each have been awarded to : R. L. Alexander, Edinburgh College of Art; W. R. Bakewell, Robert Gordon's Technical College, Aberdeen; Miss E. Evans, Architectural Association School for Architecture, London; and A. J. Wheeler, Birmingham School of Architecture.

The Yerbury Foundation

The first lecture of the Yerbury Foundation, on the effect of shape on building costs and methods, was held at the T.U.C. Building last Thursday. The three speakers, A. G. Sheppard-Fidler, M. H. Thackray and T. V. Prosser, agreed that no firm information existed on the relationship between the height of buildings and their costs. In some cases they were able to tell from their own experience of building where information existed about this subject, but, however, none of it had been collected and presented in such a form so that firm conclusions could be drawn from it. A number of organizations, including the D.S.I.R., are working on the subject. The chairman of the meeting was P. E. Trench, O.B.E., director, N.F.B.T.E.

Services for Tall Buildings

The Technical Information Service of the Ministry of Works, in association with the L.C.C. Brixton School of Building, has arranged for a discussion on "Services for Tall Buildings" in the conference hall at Olympia at 5 p.m. on Friday, November 20, 1959, two days after the opening of the Building Exhibition. The chair will be taken by Sir Thomas Bennett, who will put the architect's point of view and mention client's requirements. Other speakers from the platform will be J. A. Derrington, on structural problems; J. R. Kell and J. C. Knight, on heating and ventilating and other mechanical engineering services; and R. T. Gillet, who will speak on water supply, plumbing, drainage and waste disposal systems. Enough time will be allowed for contributions and questions from the audience. Drawings relating to current practice in the provision of services in tall buildings in the United States of America will be displayed in the conference room foyer, by permission of Mathew Hall & Co. Ltd.

Admission to the discussion is free by ticket, obtainable from the Technical Information Service, Ministry of Works, Room 320, Lambeth Bridge House, London, S.E.1 (telephone: RELiance 7611, Ext. 1866).

Appointment

Mr. R. T. Walters, A.R.I.B.A., A.M.I.STRUCT.E., joins the Directorate General of Works, War Office, on November 16, as chief architect, development and research. Mr. Walters leaves the services of British Railways, where he was principal assistant architect for the Eastern Region.

DANISH SEAMEN'S CHURCH, STEPNEY

Architect: HOLGER JENSEN
 Associate Architects: ARMSTRONG AND MACMANUS
 Associate-in-charge: RICHARD WACKERBARTH
 Structural Engineers: OVE ARUP AND PARTNERS
 Quantity Surveyors: WILLIAM C. INMAN AND PARTNERS



THIS new seamen's church and mission replaces the worn-out premises now in Limehouse.

The site is on the corner of Commercial Road and Yorkshire Road, opposite the Rotherhithe Tunnel approach, and while it is an awkward triangular-shaped one with a railway viaduct behind and noisy roads on two sides, it is very well placed for communications with the various docks.

The function of the building is to provide spiritual and social facilities for seamen from Danish ships coming to the London docks.

The building has been designed on the assumption that it will be the terminal building to this portion of the street. The present empty building, the former "Star" Tavern, will be demolished when future road widening takes place.

The main non-domestic accommodation occupies the whole of the ground floor and consists of a small church (45 seats, plus gallery), reading room, lounge, billiards room and meeting room. This latter room can be used as an extension to the church to provide additional seating on special occasions.

The social rooms are planned round a small internal garden court, which not only provides light and air, but also provides a pleasant outlook to the rooms.

On the second floor are two flats providing accommodation for the pastor and the warden.

The construction and finishes of the building are briefly as follows: brickwork internally and externally to church, etc., is of a dark brown Leicestershire facing brick. Apart from the church, which is of load-bearing brickwork, the remainder of the building is of reinforced concrete framework, with cement infill wall panels rendered and painted in various shades of grey externally.

The roofs are flat, with the exception of the church, which is approximately "M"-shaped, covered in copper.

In the church itself all the wood-work is in plain pinewood, wax finished.

The church contains two seventeenth century carved wood figures





Entrance from the Commercial Road



of Saint Peter and Saint Paul, by the sculptor, Cibber, who was also responsible for the sculptured panels at the base of the monument. Behind these figures is an abstract glass mosaic window, made by the Danish sculptor, Palle Bruun and designed by him in co-operation with architect Holger Jensen.

Although the Danish architect, Holger Jensen, is well known in Scandinavia for his churches, the British firm of associate architects, Messrs. Edward Armstrong and Frederick MacManus, had a difficult job in translating everything from Danish, in the building sense, into English. There can be no doubt that their contribution was considerable, in view of the complexity of English building by-laws.

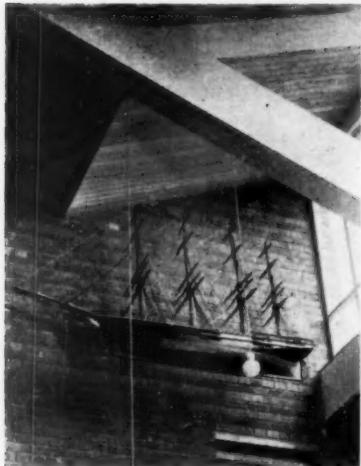
The building is very simply made, and wherever possible the structure has been left exposed. Plain brick surfaces, untreated timber, distempered plaster walls, give a feeling of forthrightness and honesty, unusual in building today.

It is a pity that the brick work had to be completed during the winter months, since it is used extensively inside as a "finish", and the ravages of winter are still clearly visible, but may wear off in the course of time.

The glass and concrete window in the church was designed and executed by Palle Bruun, of Copenhagen.

The organ was made and installed by Th. Frobenius & Co., Denmark, and designed in collaboration with Holger Jensen.

The light-fittings and clock were



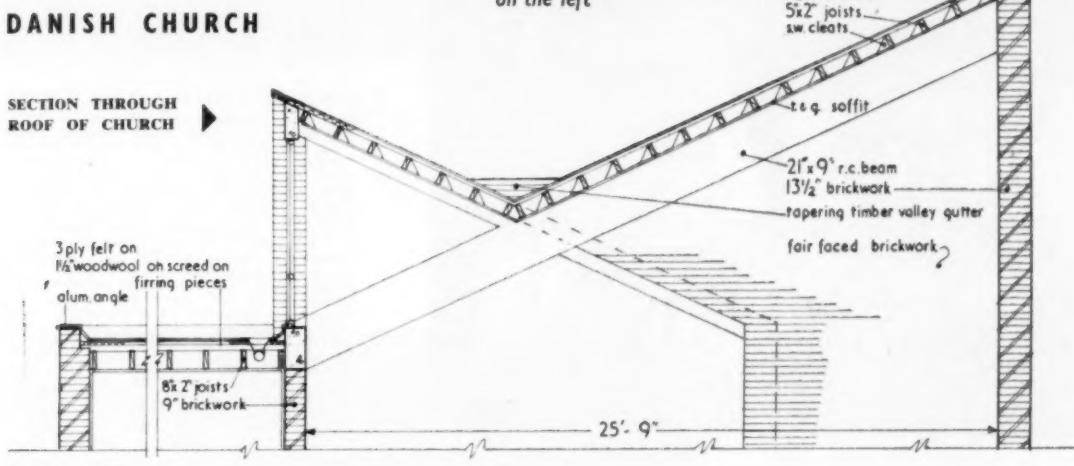
The ship that hangs near the organ



The church with the figures
of Saint Peter and Saint Paul
on the left

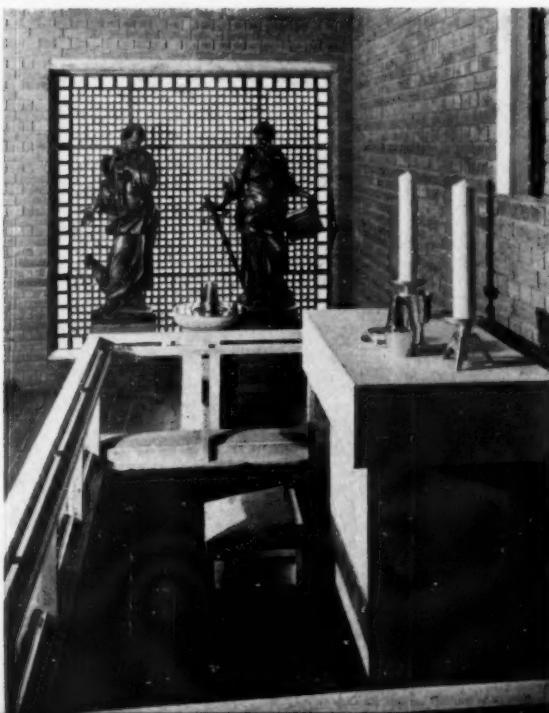
DANISH CHURCH

SECTION THROUGH
ROOF OF CHURCH

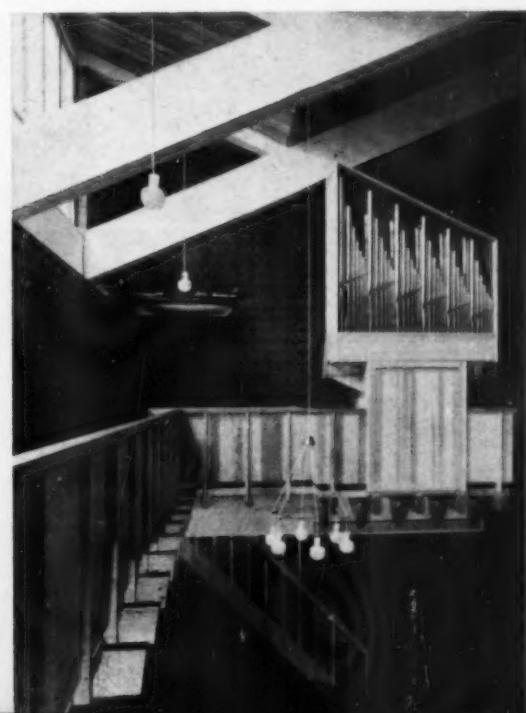


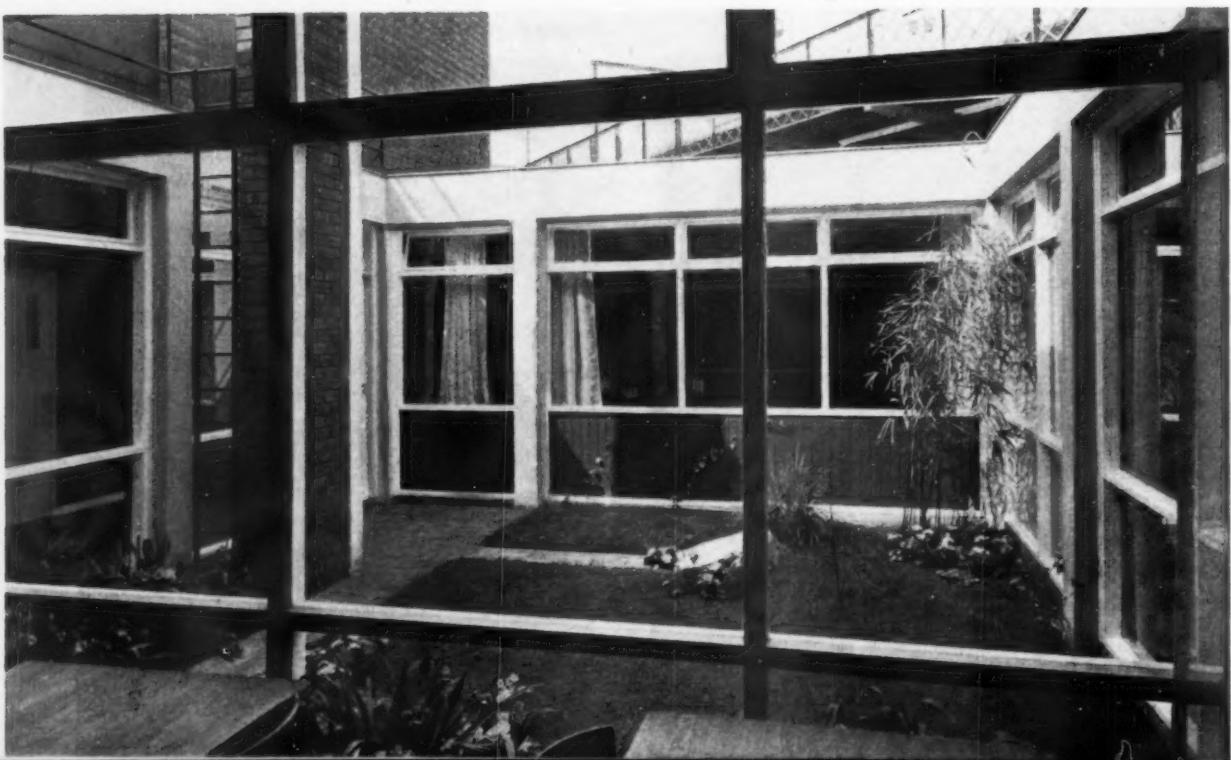
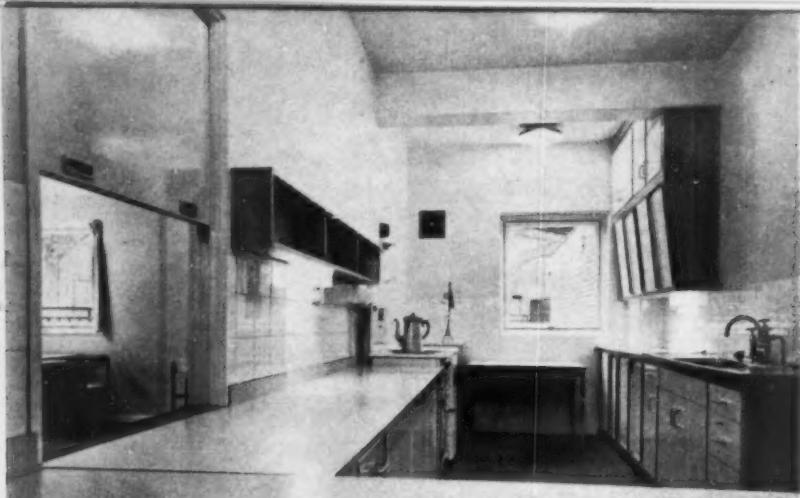
SCALE : 1 IN=8 FT

The figures of Saint Peter and Saint Paul



The organ gallery





supplied by Louis Poulsen, of Copenhagen.

The furniture was supplied through Nordiske Andels-Eksport, Copenhagen.

The altar and font silver-ware was designed by Holger Jensen and supplied by Dansk Paramenthandel, Copenhagen.

The pulpit was made and donated by Arthur Sorensen, of Esbjerg, to the design of Holger Jensen.

DANISH CHURCH

1. Kitchen of the mission
2. Seamen's lounge
3. Paved courtyard from lounge

2 General Contractors:
W. H. GAZE & SONS LTD.

Sub-contractors and suppliers:

Altar, Font, Foundation and Memorial Stones: J. Whitehead & Sons Ltd. Anchor Motif on External Crosses: Arden & Co. Ltd. Bell, Mears & Stainbank. Curtains: Heal's Contracts Ltd. Electrical Installation: W. H. Gaze & Sons Ltd. Facing Bricks: R. Y. Ames Ltd. Flagstaff: John Edgington & Co. Ltd. Flooring (Concrete Tiles): Langley London Ltd.; (Cork and Plastics): Armstrong Cork Co. Ltd. Flush Doors: Jaysbee Joinery Ltd. Garden Work: F. C. Courten & Co. Ltd. Heating Installation: Weatherfoil Heating Systems Ltd. Ironmongery: Alfred G. Roberts Ltd.; Tomo Trading Co. Ltd. Joinery: W. H. Gaze & Sons Ltd. Kitchen Fittings: Built-in Fixtures Ltd. Ladder (Roof Access): H. C. Slinby Ltd. Lettering: Lettering Centre. Metal-work: Light Steelwork (1925) Ltd. Mirrors: London Sand Blast Decorative Glass Works Ltd. Pavement Lights: Haywards Ltd. Pre-cast Concrete (Pergola): Vibrated Concrete Construction Co. Ltd. Roofing (Copper): Holloway Metal Roofs Ltd. Roofing (Felt): H. V. Smith & Co. Ltd. Rooflights: Quickho Engineering Ltd. Sanitary Fittings: John Bolding & Sons Ltd. Wood Windows: Rippers Ltd.

3



View from south

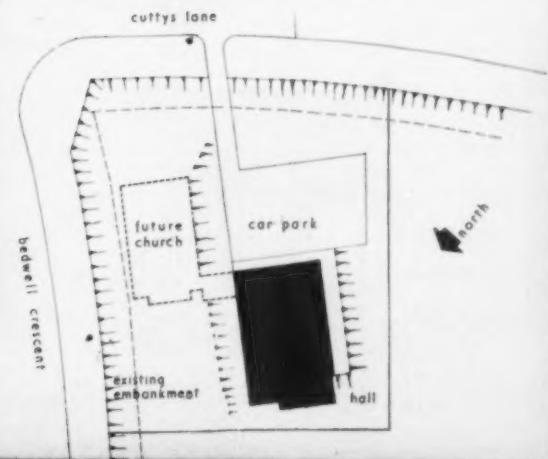
CONGREGATIONAL CHURCH, STEVENAGE

Architects: EDWARD D. MILLS & PARTNERS

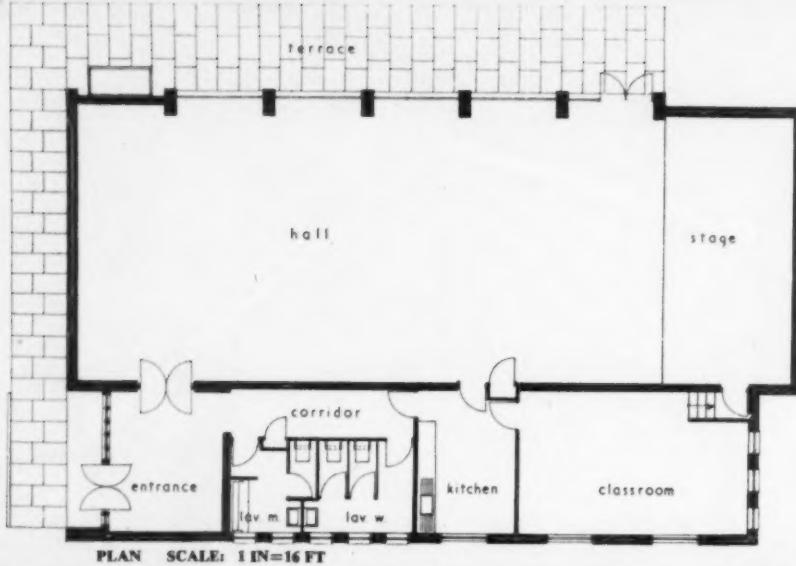


THIS church, sited at the centre of Stevenage New Town, is a good example of the informal and pleasantly-at-ease architecture peculiar to the new towns. The first stage, catering for the requirements of new town life, consists of a multi-purpose hall seating 200 people, with amenities of stage, classroom and kitchen, for use on weekday activities as well as Sunday services. Limited funds made it necessary to build the work in two stages, and the main church occupies the second, future part of the development.

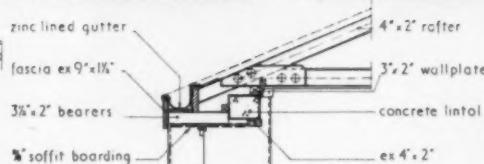
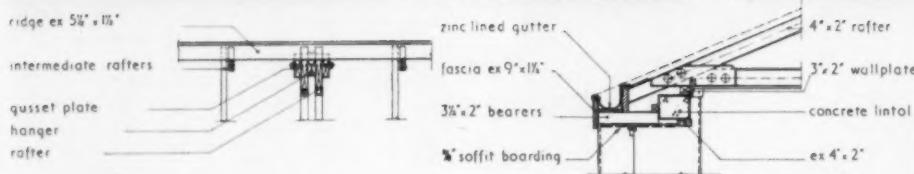
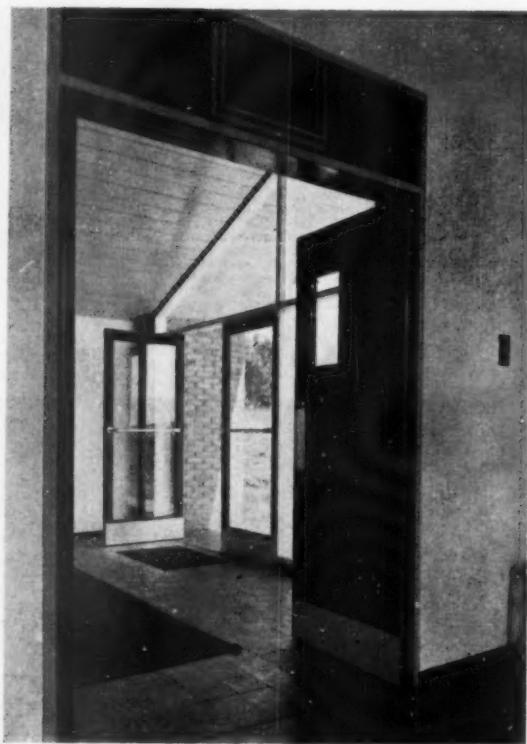
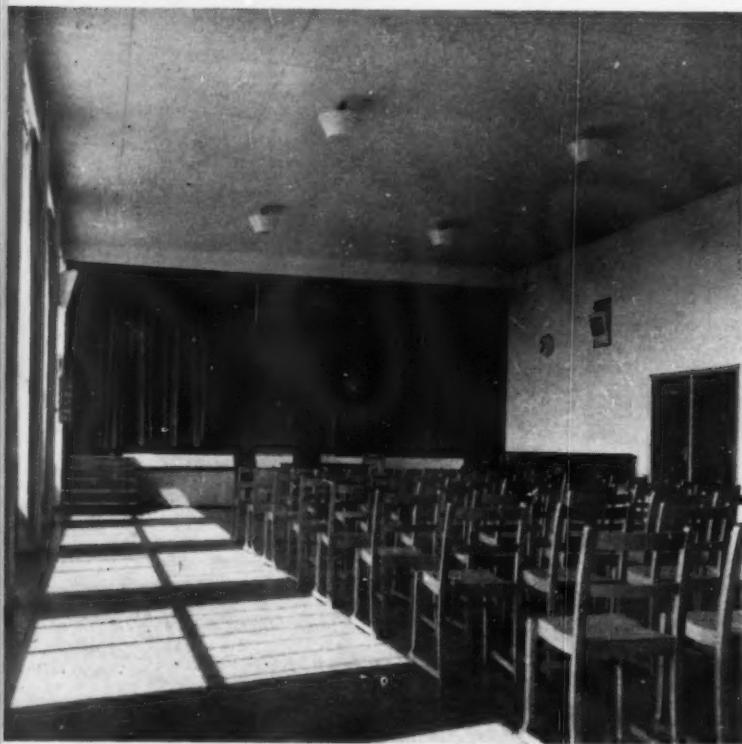
It is built in simple, traditional construction, with materials similar to those used in the neighbouring houses. Walls are faced with light-coloured 2in sand-faced bricks, on a black-painted plinth. Windows are metal casements, and the entrance doors are



CHURCH AT STEVENAGE



of polished hardwood, with aluminium furniture. Timber framing to the entrance, as well as the V-jointed soffit boarding and fascia, is of soft-wood painted white. The hall has a T.D.A. roof truss covered with cedar shingles, and a $\frac{3}{4}$ in fibreboard ceiling. Internally, the walls and ceiling are painted white, with a polished natural plywood finish to the stage front. Flooring is brown thermoplastic tiles, with granolithic paving in the lavatories, and red quarry tiles to the entrance hall. The building is heated by independent gas-heaters. Quantity Surveyor: Leslie W. Clark.



PLAN OF RAFTERS TRUSS

ex 5 $\frac{1}{2}$ " x 10 $\frac{1}{2}$ " ridge

2 $\frac{1}{2}$ " x 2" rafters 2" apart

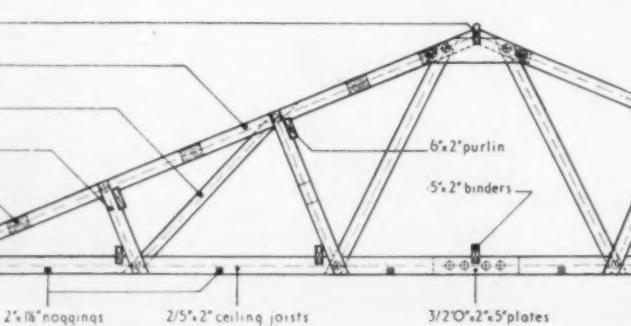
3" x 2" hangers

2 $\frac{1}{2}$ " x 2" struts

6" x 4" x 2" pack

3 $\frac{1}{2}$ " gusset plates

3 $\frac{1}{2}$ " 2" wallplate



General Contractors:

Wm. SINDALL LTD.

Sub-contractors and suppliers:

Cedar Shingles: Colt Ltd. Doors: R. Cattle Ltd. Electrical Fittings: Dobson Electrical Installations Ltd. Electricity Supply: Eastern Electricity Board. Exit Signs: E. Coules & Son Ltd. Fire Appliances: Mather & Platt Ltd. Gas Heaters: Bras Colbain Ltd. Gas Installation: Eastern Gas Board. Glass: Pilkington Bros. Ltd. Ironmongery: Yannidis & Co. Ltd. Kitchen Fittings: Jaynebee Joinery Ltd. Linoleum: Dulec Lino Ltd. Metal Windows: James Couper & Co. Ltd. Sanitary Fittings: Stitsons Sanitary Fittings Ltd. Thermoplastic Floor Tiles: Armstrong Cork Co. Ltd. W.C. Partitions: Venesta Ltd. Wrought Iron Crosses: F. T. King.

THE church and hall were built on foundations of the old Victorian church which was gutted by fire during the war. A substantial portion of the walls of the old church remained, and the yellow stock bricks out of which it was built were cleaned and used for the new building, which is faced entirely with them. It was possible to save most of the walls of the classrooms at the rear although this was originally a two-storey building which is now reduced to a single storey. A certain amount of structural work was necessary to this portion, such as erecting new partitions, putting in new floors and roofs, cutting new door and window openings and filling in other openings, but the plan form is substantially what it was before. The church and hall cover the area of the old church, the dividing wall being on new foundations.

The external walls are generally of solid brickwork. Cavity wall construction was precluded on account of load bearing qualities in the case of the church and hall, and the use of existing walls in the case of the classrooms.

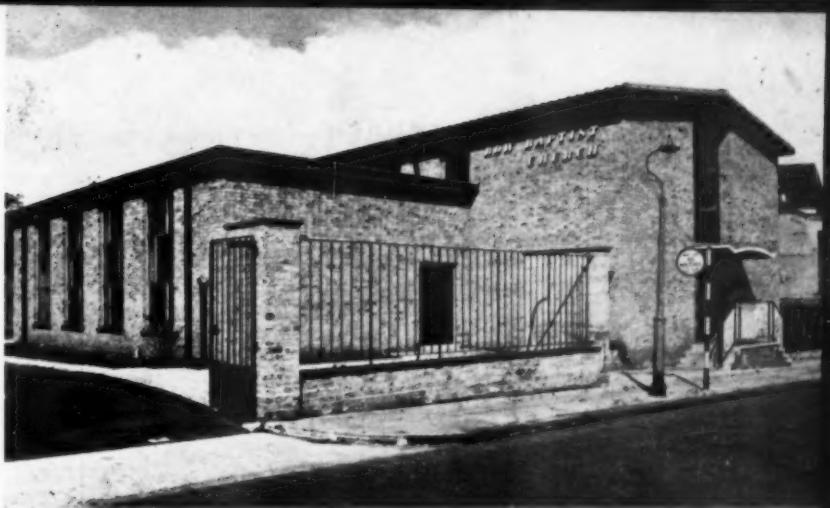
The roofs of the hall and the classrooms are of traditional wood joisted construction covered with 2in compressed straw slabs and asphalt and with ceiling of "Highlight" fibreboard. The church roof is supported on built-up timber trusses faced with diagonal tongued and grooved boards, and consists of exposed wrought timber purlins, 2in compressed straw slabs, felt Noral Snaprib aluminium sheets.

All gutters to the flat roofs are concealed, and gutters to the pitched roof and all down pipes are light-blue Vitreflex, which, together with the iron railings and lettering which are coloured to match, show up very well against the yellow brickwork.

Window frames and a lot of the joinery internally are of Agba, treated with a clear synthetic resin finish.

The problem of intermittent heating which applies to buildings of this nature has been reasonably successfully met by the installation of infrared electric radiant heaters at high level on the walls, supplemented by the use of small electric convectors beneath the larger windows for the sole purpose of reducing down draughts. The advantages of this form of heating are that of economical installation and running costs due to the comparatively short period of preheating that is required and freedom of floor space. The disadvantage is that the floor remains cold, which tends to give rise to complaints of cold feet from the congregation, who sit without movement for considerable periods.

The church has been built by funds provided as compensation from the War Damage Commission. By agreement with the War Damage Commission part of the compensation was portioned so as to finance the building of two other churches on quite different sites.



BOW BAPTIST CHURCH, OLD FORD ROAD, LONDON

Architects: H. and H. M. LIDBETTER

Two views of the church from the street. The yellow stock bricks from a previous church on this site were reused



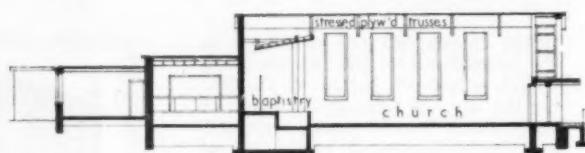
BOW BAPTIST CHURCH

General Contractors:

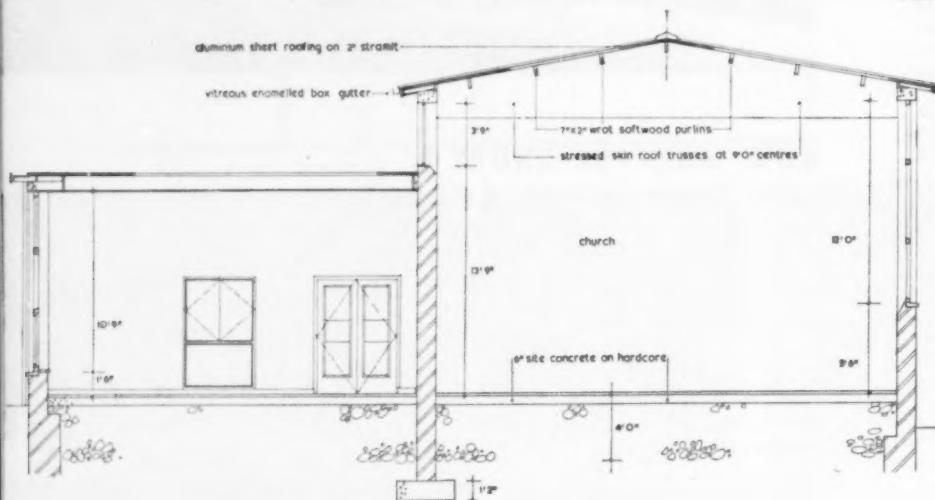
E. A. ROOME AND CO. LTD.

Sub-contractors and suppliers:

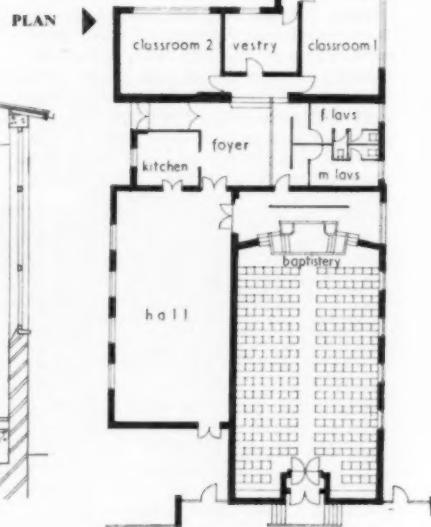
Cement Glaze Dados: Robbs' Cement Enamel Finishes Ltd. Compressed Straw Slabs: Stramit Boards Ltd. Electrical Installation: Gooding Electrical Co. Ltd. Flush Doors: R. Cattle Ltd. Heating Appliances: Hanover Lamps & Dimplex Ltd. Ironmongery: Yannidis & Co. Ltd. Lettering: Ward & Co. Paint: Vitretex (England) Ltd. Plumbing: J. C. Spooner & Son Ltd. Roofing: Hall & Co. Ltd. Sanitary Fittings: Adamsez Ltd. Windows: E. A. Roome & Co. Ltd. Wood Block Flooring: Vigers Bros. Ltd.



LONG SECTION SCALE: 1 IN=32 FT



SECTION THROUGH HALL SCALE: 1 IN=8 FT





The entrance from Fairview Rise

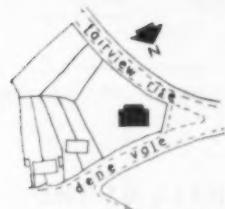
CHURCH HALL OF THE ASCENSION, BRIGHTON

Architects: GOTCH and PARTNERS

Architect in Charge: J. A. WELLS-THORPE

Quantity Surveyor: H. P. POWELL

Structural Engineers: J. WATT SANDEMAN and SON



SITE PLAN

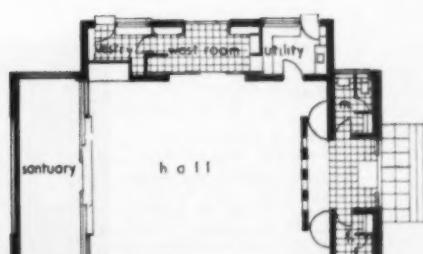
THE problem was to provide the maximum seating at a minimum cost on a steeply sloping corner site that had remained undeveloped, while "easier" sites had been built up nearby. The church serves this new estate and, bearing in mind the predominantly young population, maximum flexibility of the plan had to be catered for. A further requirement was minimum maintenance of the finished building and this had a bearing on the selection of materials listed in the following paragraph. Owing to the exposed position in the funnel of the valley, wind (prevailing south-west) was a serious problem and a draught lobby was provided.

Externally, a Sussex boulder flint plinth was used. Above this are Henfield buff wire cuts up to roof level which is sheathed in copper. Apart from paintwork externally, maintenance is absolutely minimal.

Sliding doors separate the sanctuary and the main hall which is also

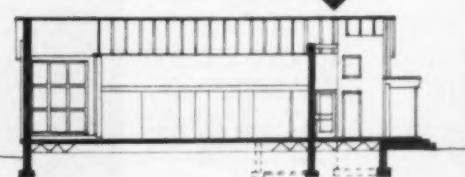
used for secular purposes, and it was felt important to create the maximum contrast between these two elements. Therefore, plain glazing from the north was adopted for the hall and tinted amber cathedral glass on the south side of the sanctuary was provided, which gives filtered light through the ceramic grill outside into the sanctuary, giving a "cloistered" appearance to an otherwise secular interior.

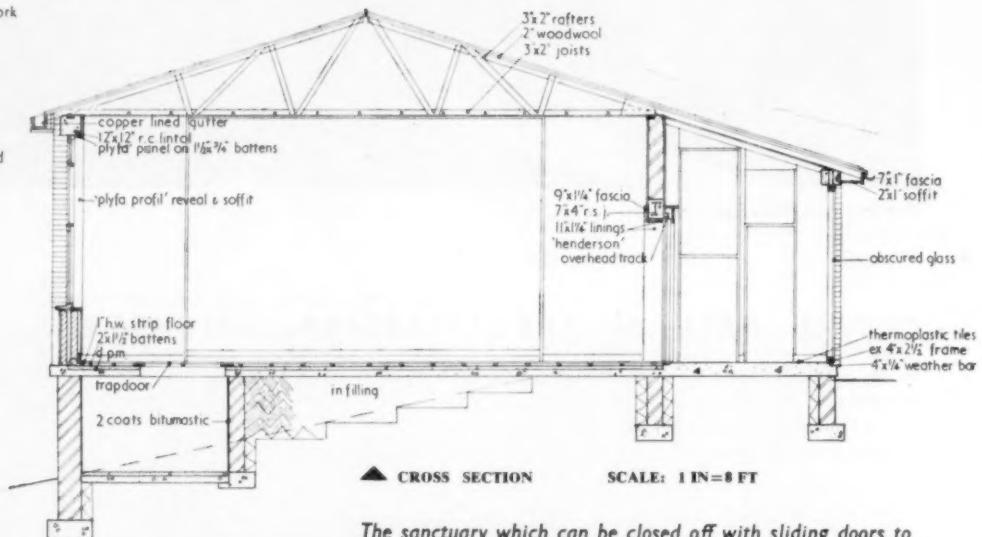
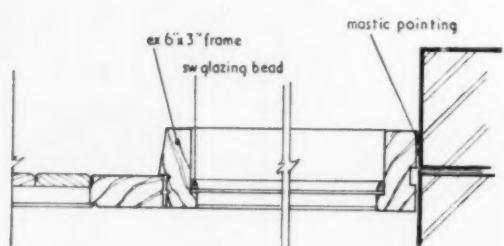
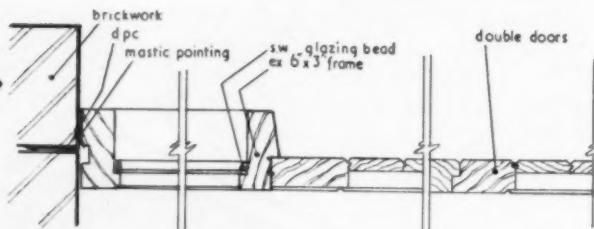
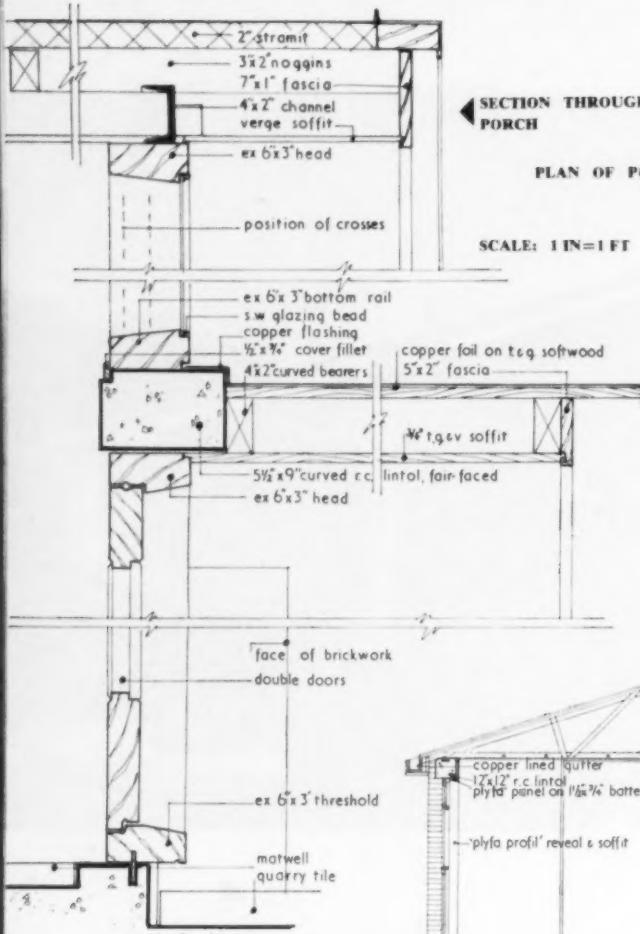
No east window was provided, as the glare from this often distracts the eye, and, furthermore, the east end is only temporary and the Western Red cedar shingles can be removed and the whole building extended by one or two bays. The piers either side of the shingle panel have a clear dimension between them, exactly the same as the opening between the sanctuary and the main hall as it now stands, so that all that would be necessary would be for the sliding gear to be rehung on that wall.



PLAN

SECTION
SCALE: 1 IN=32 FT





HALL OF THE ASCENSION, BRIGHTON

The sanctuary which can be closed off with sliding doors to permit the hall to be used for secular purposes

General Contractors:
**SAUNDERS
WATTS LTD.**

**Sub-contractors
and suppliers:**

Cement Enamel Glaze: Robbs of London. Ceramic Screen Pieces: Sussex & Dorking Brick Co. Ceramic Tiling: Crest Ceramics. Decorative Ironwork: Iron Designs. Doors: Thomas Harrington. Electrical: Bostel Bros. Ltd. Fittings and Furniture: Saunders Watts Ltd. Flooring: Walkers (Hove) Ltd. Glazing: Cox & Barnard (Hove) Ltd. Ironmongery: Louis G. Ford. Lighting Fittings: Frederick Thomas & Merchant Adventurers. Paving Slabs: Ightham Brick Co. Roofing: Broderick Insulated Structures Ltd. Sliding Door Gear: Hendersons. Soft Furnishing: John Bowles. Suspended Ceilings: Chandlers of Lewes. Wood Carving: James Gibb





From the road, on the left the church and vestry and on the right the church parlour

METHODIST CHURCH, CARLTON, NOTTINGHAM

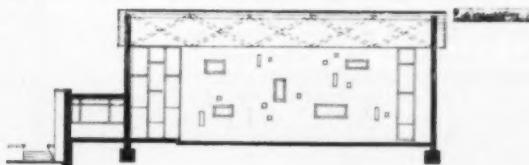
Architects: JOHN DUDDING and PARTNERS

THIS church with its ancillary buildings was designed as an extension to an existing church hall and Sunday school, built over 50 years ago. The existing buildings are set back 95ft from Gedling Road. It was therefore possible to group the new buildings between them and the road, concealing to a large extent the older group behind. The site is a dominant one, 60yds to the east of a busy road junction. There was an existing coppice in the southern corner of the site and this has been left largely undisturbed.

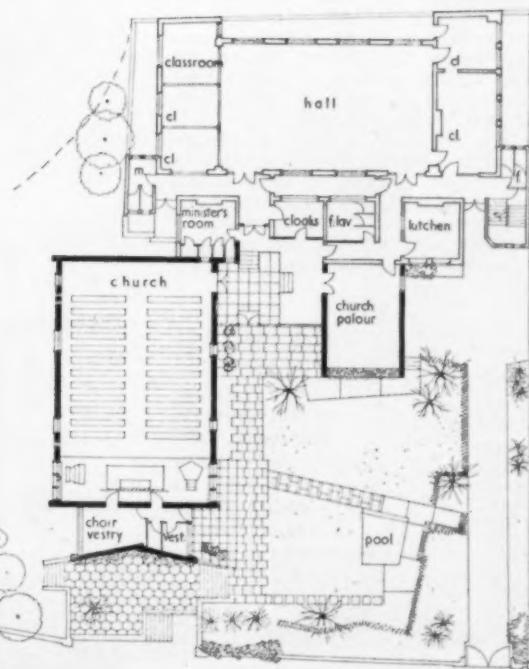
The new church was required to seat 200, including the choir. Additional accommodation to be provided included an entrance hall to serve the old and new buildings, new vestries and a church parlour to seat 60. The small rooms on the east side of the existing buildings were to be reorganized to provide a minister's study, new cloakroom and lavatory accommodation and a new kitchen. The existing vehicular access was to be retained.

Of the several possible solutions, any of which would have satisfied the clients' requirements, the one finally adopted was considered to form the most pleasingly composed group. It is planned around the garden which

LONG SECTION



PLAN
SCALE
1 IN=32 FT



METHODIST CHURCH, NOTTINGHAM

was completely redesigned by the architects to provide a suitable setting for the church and a pleasant approach to the entrance and the forecourt and the rest garden, with its pool and sitting place on the north side.

The architects believed that modern churches too often tend to be lit by too many large windows. In this church the daylighting has been designed to produce an appropriate effect by the judicious sizing and placing of windows, and introduction in certain windows of some stained glass by John Baker.

A large acoustic panel on the west wall, temporarily painted in a delicate yellow and white, is available for an appropriate mural as and when funds allow.

The exterior cross of aluminium in the forecourt at the east end was designed and made under the direction of Robert Adams.

The planting of the gardens has not yet been carried out. On the south side of the church surplus earth from the builders' work has been modelled to form an undulating landscape in the existing coppice in strong contrast to the rectangular form of the church.

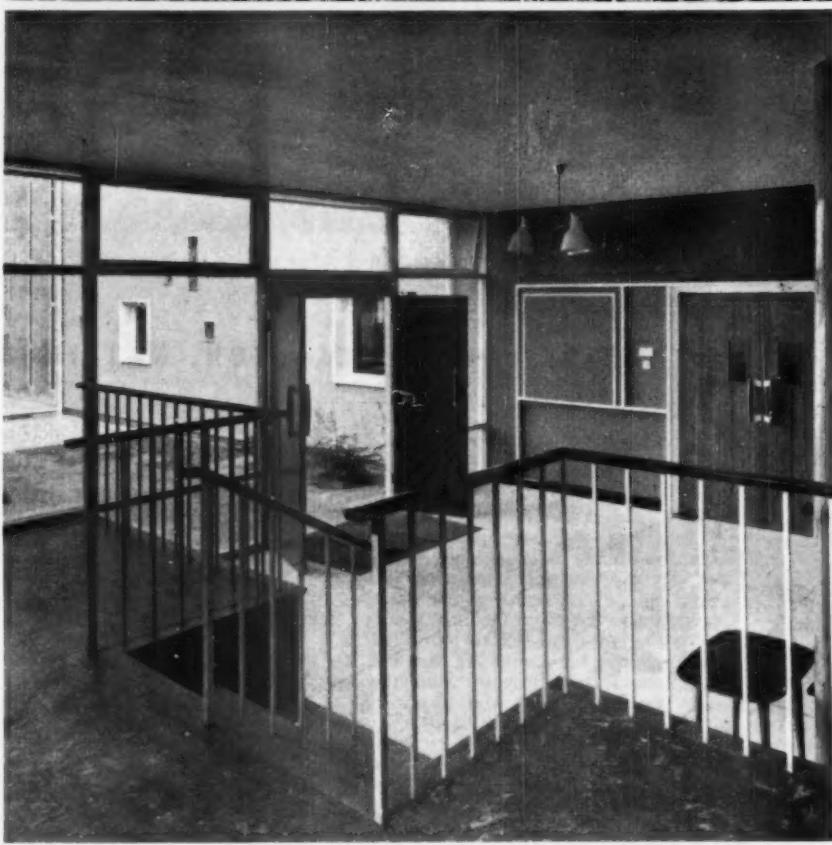
The new buildings are of load-bearing construction throughout. As the site is liable to mining subsidence the foundations have been specially designed and suitably reinforced.

The roof of the church is designed as two trussed girders in the planes of the roof slopes, meeting at the ridge and prevented from spreading at the eaves by being bolted to a reinforced concrete ring beam which is continuous across the gables. This construction was used to avoid the necessity for tie rods internally and the projection of any framing members below the line of the ceiling. The trussed girders support timber purlins and the roof is covered with Stramit boards and felt.

The flat roofs are of prestressed concrete beam construction with lightweight concrete infilling blocks providing flush ceilings throughout.

The curved east wall to the forecourt is faced with exposed aggregate concrete slabs. Elsewhere, walls are

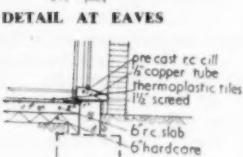
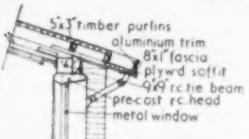
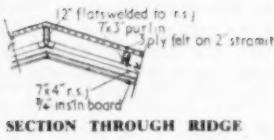
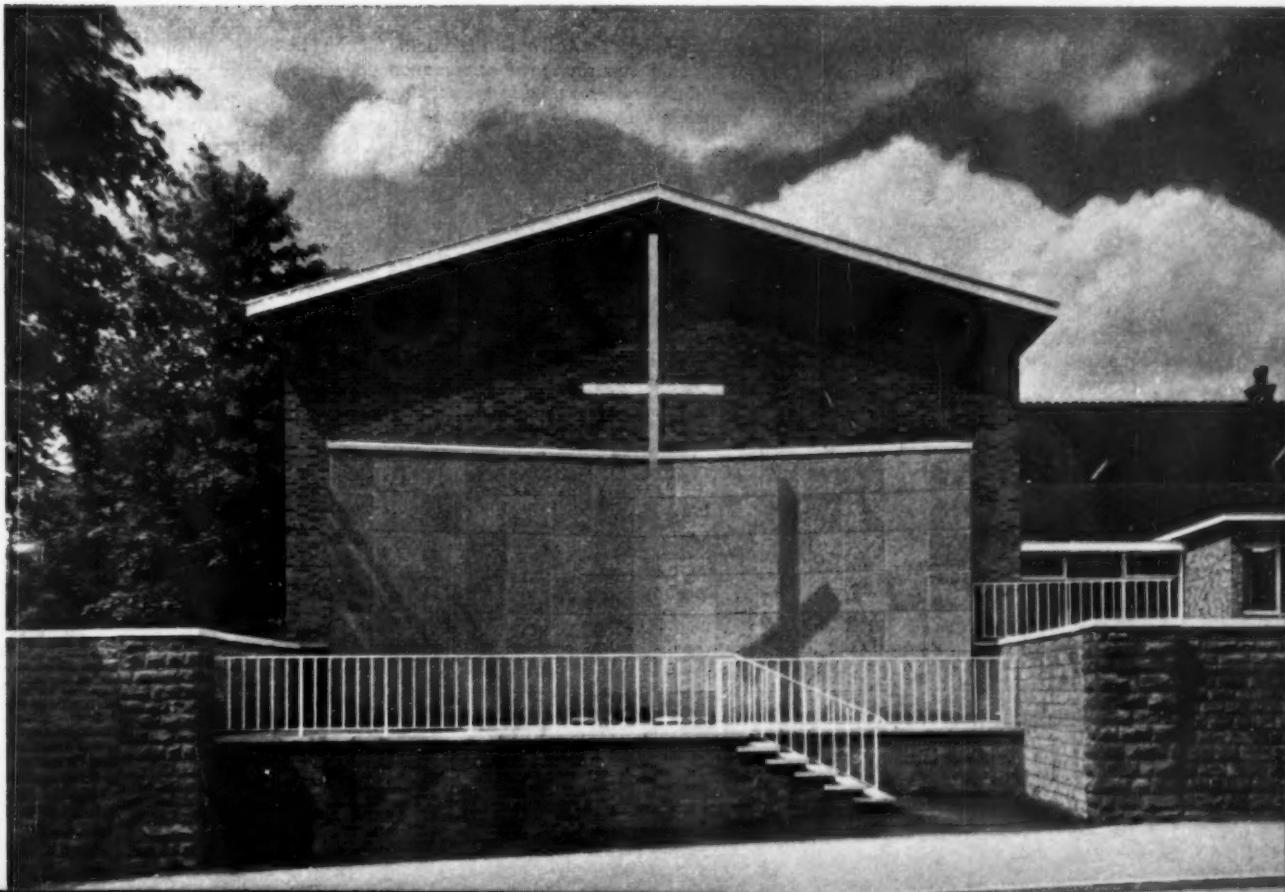
*Top. View from the back of the church looking towards the altar.
Below, two views of the lobby between the church and the church parlour*





The pulpit in front of the window looking onto the open entrance courtyard. Details on the right are of this window

The church from the road



General Contractors: STOKES TAYLOR AND SHAW LTD.

Sub-contractors and suppliers:

Acoustical Panel: Burgess Products Co. Ltd. Artificial Stone: Evans Bros. (Concrete) Ltd. Chairs: E.S.A. Ltd. Curtains and Carpeting: Hopewells Ltd. Doors: Leaderflush Ltd. Electrical Installation: R. J. Pickford Ltd. Exposed Aggregate Cladding: Nottingham Gravels & Concrete Ltd. Fencing Bricks: Proctor & Lavendar. Felt Roofing: D. Anderson & Son Ltd. Fibrous Plaster: W. J. Wilson & Son. Garden Seats: S. M. Wilmet & Co. Ltd. Gas Service: East Midlands Gas Board. Heating Installation: Weatherfoil Heating Systems Ltd. Ironmongery: Dryan Metalworks Ltd. Landscaping: Chris Jones (Kirkby) Ltd. Metal Windows: Siddons (Redhill) Engineers Ltd. Paints: Joseph Mason & Co. Ltd. Plastering: W. A. Telling Ltd. Prestressed Concrete Roof Beams: Trent Concrete Ltd. Pulpit Frontal: Mary Garner Ltd. Roof Lights: Greenwoods & Airvac Ventilating Co. Ltd. Sanitary Fittings: Woodhouse & Co. Ltd. Special Joinery: J. R. Makin & Son. Structural Steelwork: Stokes Taylor & Shaw Ltd. Suspended Ceiling: A. Wright (Tilers) Ltd. Terrazzo: A. Fiori & Co. Thermoplastic Tile Flooring: Rowan & Boden Ltd. Wrought Ironwork: Lewis & Grundy Ltd.

in hand-made, mixed grey facings, except for the long elevations of the church which are finished in Tyrolean rendering.

The floors are generally of thermoplastic tiles, except for the lower level of the entrance hall which is *in situ* terrazzo.

The pulpit is of reinforced concrete cantilevered from the floor of the sanctuary. The sides are faced with moulded oak strips planted on beech ply backing and the communion table is treated similarly.

The existing buildings are heated by a low-pressure hot-water system from a solid-fuel boiler which is loaded to capacity. An entirely separate system was therefore designed for the new buildings. This is a fully automatic, low-pressure, hot-water, gas-fired type with Weatherfoil forced-air heater cabinets at appropriate points. The gas boiler is located in the existing boiler basement.

Final cost, including all site works and alterations to existing buildings, £15,800.

Industrial Notes

● Following the purchase of Duncan Tucker (Tottenham) Ltd. by General Woodworkers Ltd. in January, 1959, a complete reorganization of Duncan Tuckers was planned to take place in three phases. The first two phases have been finished. A large site, with adequate storage for timber and buildings suitable for use as a modern joinery factory, was obtained at Pymore, nr. Bridport, Dorset, and new central offices completed at Penn, Bucks (telephone: Penn 2215). The third phase, the establishment of the new mill, will be effected by the end of November, with deliveries commencing in December. The joinery mill will concentrate on standard windows, door frames, etc., but will have a limited capacity for some non-standard joinery of a repetitive nature, for housing schemes. The policy of the company, however, will be to quote only against architects' and builders' drawings in the case of non-standard joinery. In the main, bills of quantities will not be acceptable.

● E. Hill Aldam & Co. Ltd. have moved to Britannic Works, Red Lion Road, Tolworth, Surbiton, Surrey (telephone: Elmbridge 0090).

● About 130 invited guests recently attended a one-day exhibition, organized by Floor Treatments Ltd., at the Free Trade Hall in Manchester. The ease of application and main-

tenance of such products as Bourne Seal and Bourne Gleam, and the full range of Resco automatic scrubbing and polishing machines were included in the demonstrations. Guests were from education and hospital authorities, the flooring trade, large stores and major industrial organizations in Northern England.

● Matthews & Turner Ltd., builders and contractors, have moved to new premises at Bristol Avenue, Bispham, Blackpool (telephone: Blackpool 52558/9).

● Bernard Wardle (Everflex) Ltd., of Caernarvon, are to exhibit their P.V.C.-coated fabrics at the British Design in Denmark Exhibition which is to be held in Copenhagen from November 20 to 29. They will feature their Piazza design which, earlier this year, gained a Design of the Year Award from the C.O.I.D. who are organizing the exhibition in conjunction with the British Import Union of Denmark.

● The Hymatic Engineering Co. Ltd. have gained a £10,000 order from the Greek Government for the supply of 12 of their 98P100 Hymatic-Hydrene mobile air compressors with pneumatic tools.

● The manufacture and sale of Supira Chimney Terminals has been transferred from Omnia Constructions Ltd. to Supira (London) Ltd., of

The London offices and information centre of Pan American Airways in Piccadilly have been completely reconstructed internally. This view shows the combination of Lumenated Ceiling and Lumenated Module lighting systems used in the booking hall. Electrical contractors were Haines & Sheppard Ltd.



121 London Wall, E.C.2. This will enable Omnia Constructions to concentrate on developing the Omnia Floor.

● The London area sales office of Northern Aluminium Co. Ltd. has been moved from Bush House to new premises at 50 Eastbourne Terrace, London, W.2 (telephone: Paddington 3281).

● An £80,000 contract for a lecture theatre block has been placed with Holland & Hannen and Cubitts (Great Britain) Ltd. by the Royal Aeronautical Society. The theatre is due to be completed within a year and will accommodate over 300 people.

● Volex Electrical Products Ltd. have appointed Mr. R. Tearse to be in charge of a newly formed technical department for the development and sales of special cables, primarily for space-heating.

● Three new executive appointments have been made within the Berger Group of Companies. Mr. D. G. Newton has become director and general manager of the Keystone Paint & Varnish Co. Ltd. Mr. T. B. Collins and Mr. J. W. C. Poole have, respectively, been appointed manager, Southern Area, and assistant marketing manager of Lewis Berger (Great Britain) Ltd.

● Jensen & Nicholson Ltd. have commenced a new series of three-day training courses at their Stratford works. The courses are open to all stockists of the company's Robbialac Colorizer paints and their sales staff. The last course of the new series starts on April 25, 1960.

● Gliksten Doors Ltd. have opened a new sales office at 112 Londesborough Street, Hull (telephone: Hull 16071).

● Dafiles Ltd. have introduced a Trade Pack (Ref. TP 260) of their Tilefile (see New Products, A. & B.N., 23/9/1959). The new pack contains six blades and two pair adaptors and will cost 21s.

● Teddington Industrial Equipment Ltd. have appointed Mr. S. N. Griffin, of 7 Elms Terrace, Load Head, Edinburgh (telephone: Load Head 398), as their sales and service engineer in Scotland.

● Mr. E. P. Purcell has been appointed to the board of directors of George Cohen (Dublin) Ltd., one of the George Cohen 600 Group.

CORRECTION

We regret that illustration L of Armstrong Cork Co's Travertone acoustic ceiling, which appeared on page 192 of our issue of 16/9/59, was inserted upside down.

NEW PRODUCTS

In this feature are reviewed new lines introduced to the building industry for the first time and additions or improvements to existing ones. Any advantages claimed for a product are from information supplied by the manufacturer

Domestic Oil-fired Boiler (A)

Model 30 is the latest addition to this company's range of oil-fired domestic boilers. It has a rated heat output of 30,000 B.Th.U./hr, or 9 kW, approximate equivalent electrical rating. The appliance has a vapourizing pot burner which requires very little attention and yet is stated to yield maximum heating efficiency in return for very low fuel consumption. Our sectional illustration of the Model 30 shows: (1) water temperature control thermostat; (2) pot burner; (3) igniter plug; (4) heat detector thermostat; and (5) fuel reservoir chamber. There is an automatic on-off ignition switch and the fuel flow is thermostatically controlled so that no fuel is used when heat is not required. Safety features: (1) The quantity of fuel delivered during the starting condition is positively limited to the capacity of the reservoir chamber. This precludes the possibility of flooding in the event of ignition failure; (2) Fuel delivery is automatically stopped if there is either a partial or total failure in the flow of electric current to the glow-plug; and (3) the flow level control valve is equipped with a re-settable overriding stop valve. The valve prevents fuel flowing to the reservoir chamber should the fuel level rise above that normally obtained by the float and needle valve. Recommended

fuel: Regular grade kerosene or approved brands. Running costs: 12s 9d per week (average). Average consumption: 8½ gal/week. Thermal efficiency: 83 per cent approximately. Electrical consumption: 80W, including 50W for igniter plug (continuous rating). Electrical supply: 200/240V A.C. Overall dimensions: 20½in wide by 18½in deep by 56½in high (to top of chimney). Price: £70.

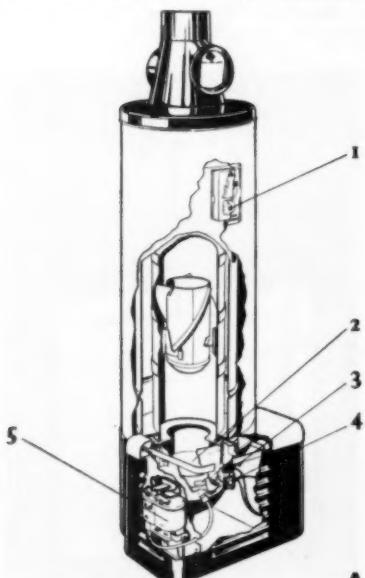
S. Smith & Sons (England) Ltd., Witney, Oxfordshire.

Readers' Information Service Ref. A. Date 28/10/59.

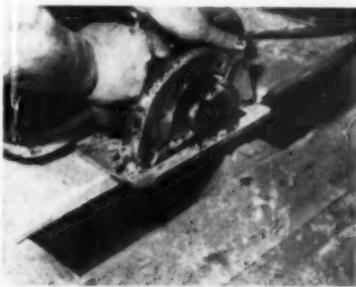
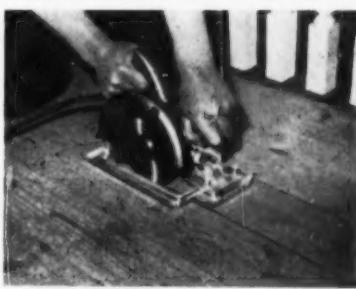


Power Tools for Installing Small-bore Central Heating (B)

This company has carried out a field investigation on the installation of small bore central heating. Their objects were twofold, first, to remove the general belief that the putting in of such a system involves considerable damage to the interior decorations of the home, and, secondly, to persuade heating engineers to use portable power tools for their installation work. As a result of their investigations the company recommends two of their tools for use on work of this kind. The ½in Standard Drill (Price: £26 16s 6d). The laying of copper pipes in circuit requires considerable hole drilling through partition wall and cornice moulds. From the neatness point of view, these pipes should pass through partition walls at a distance of not more than ½in or ¾in from the skirting boards so that they can be held in position by pipe clips fitted to the skirting. The ½in Standard Drill has the capacity and power range for this operation, and with it the operator can exert pressure along the direct drive line which gives him less fatigue than when working at an angle to the drive line. The tool is powerful enough for all normal masonry drilling, and is capable of boring up to 2in diameter holes in brickwork. It will also drive hole-saws up to 4in diameter for such jobs as immersion heater installations. The 7in Ripsnorter Heavy Duty Saw (Price: £27). This saw can be fitted with a flooring blade which will cut through nails and has been successfully used in many cases where it has been necessary to remove floorboards and notch joists to lay invisibly fixed pipes in circuit. Our four illustrations show: (1) Regulating depth of



A



B

floor blade to clear thickness of floor-board. A cross grain cut is made; (2) Maintaining depth of cut as for operation (1). The floorboards are then separated from each other by cutting the t. & g. joints. The nail heads are then punched through into the joist so that the floorboard can be removed; (3) A portion of floorboard has been removed and, by increasing the depth of cut, a notch can rapidly be made in the top portion of the joists which will permit the laying of heating pipes; (4) Tight corner drilling to skirting and wall for 1in copper pipe at ¼in clip distance, using standard type masonry drill with the Black & Decker ½in Standard Drill. To increase its effectiveness a small

NEW PRODUCTS (continued)

modification can be made to the spade handle. Users have already reported that, by using these two power tools, labour costs for installation can be reduced by 75 per cent against hand methods.

*Black & Decker Ltd., Harmondsworth, Middlesex. Skypoint 2411.
Readers' Information Service, Ref. B. Date 28/10/59.*



Hot-water Circulator (C)

The QX central heating hot water circulator provides completely automatic electric central heating. It can be used either as the sole means of heating or else in conjunction with an existing solid fuel boiler. Models are available for central heating systems in small or medium private houses, private swimming pools.



C

church halls and similar applications. The QX requires no flue and can be fitted in any convenient place, e.g., in a cupboard or under a staircase. It is claimed to be completely silent in operation and to provide easily adjustable, automatic, air temperature control. It is available in loadings ranging from 3kW (10,000 B.Th.U/hr) to 12W (41,000 B.Th.U/hr). The lengths of the models vary from 22in to 40in whilst the height and width remain constant at 7in and 6in, respectively.

*Santon Ltd., Somerton Works, Newport, Mon. Newport 71711.
Readers' Information Service, Ref. C. Date 28/10/59.*



Oil-fired Space Heater (D)

The Airheat Major oil-fired space heater has a capacity of 1,500,000 B.Th.U/hr and is suitable for use in large industrial buildings, civic offices and similar situations. It has a pressure jet atomizing burner installed within the combustion chamber. The burner has a dual start to ensure smooth start-up and a damper arrangement, integral with the fan, gives the correct combustion air setting. Electrical controls are housed in a totally enclosed dustproof cabinet and there is a flame failure

protection device which operates through a photo-electric cell. Other devices give protection against excessive air temperature and ignition failure. In addition to the fan air thermostat, there is a room thermostat to bring the unit into operation as required. Burner nozzle and exhaust fan relays are incorporated and a selector switch permits the circulation of cool air and provides for switching the mains on and off. Distributors with adjustable vanes, which may be turned to direct the flow of warm air in any direction, are fitted to the top of the unit. Ducting may be fitted as an alternative, or else a combination of ducting and distributors. The Airheat Major has a guaranteed thermal efficiency of not less than 80 per cent, and will operate for a long period without cleaning. Electrical supply: 3-phase, 440V. A.C. Fuel consumption: 11gal/hr max (reduced by about 40 per cent on thermostatic control). Weight: 35cwt. Overall dimensions: 11ft 1in high by 7ft 6in wide by 4ft 6in deep.

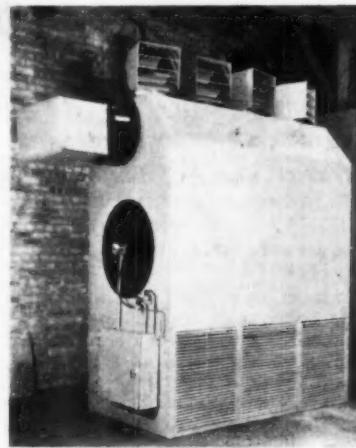
*Airheating Ltd., Murray Street, Paisley, Scotland.
Readers' Information Service, Ref. D. Date 28/10/59.*



New Veneer Laminates

Belfort is a melamine impregnated wood veneer laminate, designed to combine the warmth and decorative beauty of real wood with the durability of plastics sheet. Polishing is not necessary and the surface abrasion resistance compares favourably with the printed paper laminates though hardness is slightly less, due to the fibre and cell construction of wood. Belfort is suitable for use as panelling in public buildings, offices and similar situations. It will also be found useful in shop fitting and in the manufacture of built-in furniture. It can be cut with any high speed fine toothed circular saw and will, it is claimed, bond perfectly with a normal urea/formaldehyde adhesive either cold setting or in a heated press (up to 160 degF). Other claims are that Belfort possesses exceptional stain resistance; is unaffected by alcohol, fruit juices or household chemicals; it is not easily marked by burning cigarettes and can be cleaned with a damp cloth. Sheets are 8ft by 4ft and are approximately 1/8in thick, but slight variations in thickness must be expected owing to the differences in the compressibility of the various woods employed. Standard woods: sapele, figured mahogany, figured limba, afromosia, and makore. The range will be increased in due course.

*Bonded Veneer Laminates Ltd., CHN Veneer Mills, Chisenhale Road, London, E.3. Advance 2005.
Readers' Information Service, Ref. E. Date 28/10/59.*

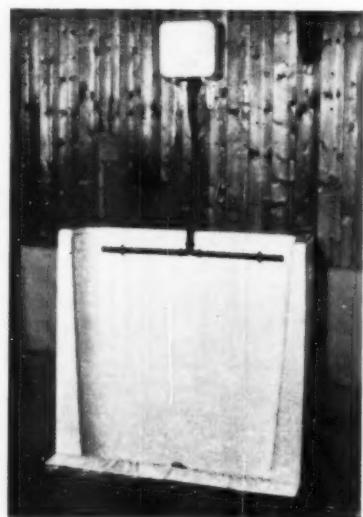


D

New Fireclay Urinal (E)

The new No. 8682 All-in-One fireclay slab urinal is made with back slab, return ends and channel, all in one piece. This means that there can be no seepage as is sometimes the case with ordinary urinal slabs or stalls. The All-in-One is made in stalls of approximately 4ft overall width, and can be made up in range form of multiples of this size, with overlaps at the joints. The slabs are 3ft 6in high and have an overall projection of 1ft. The All-in-One should be particularly suitable for use where a urinal is required above ground level or over cellars. It can be supplied with or without treads, of fireclay or granite. The price will be more than that of a normal slab urinal of equal dimensions but will compare favourably with stalls.

*John Knowles & Co. (London) Ltd., 38 & 40 St. Pancras Way, London, N.W.1. Euston 1611.
Readers' Information Service, Ref. F. Date 28/10/59.*



F

HOPE'S COMPLETELY REVERSIBLE WINDOWS

PATENT APPLIED FOR

would have prevented this..

**The windows
100ft. up
stay dirty...**

PEERING through murky panes, housewives in "skyscraper flats" in first Street, are taking a dim view of the Town Council.

It is unfair and dangerous, they say, that the Council should expect them to clean their own windows—when the only method is by leaning out backwards over a sheer drop of up to 100 feet.

"I don't care how dirty my windows get—I just can't do it," a housewife said today.

"There is nothing more terrifying than sitting out over the ledge and trying to clean these huge panes, knowing that one small slip will send you hurtling down."

"It's a job for a steeplejack or a mountaineer—certainly not for council tenants."

Firm for job

Housing Manager . . . said: "When the 11-storey flats were designed, the architects thought it would be comparatively easy to clean the outside of the windows by leaning out with a mop or rag on a stick."

"However, in view of the protests, I am investigating whether any local window-cleaning firm would consider taking on the job."

"I have some sympathy with the housewives—I haven't much of a head for heights myself."

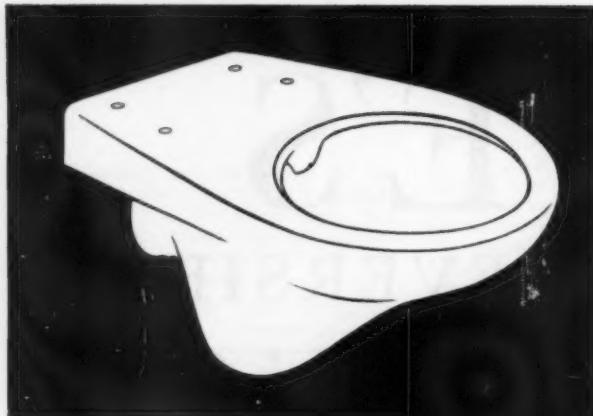
HOPE'S 

● In Birmingham new multi-storey flats are being fitted with reversible window frames so that the glass can be cleaned from inside the rooms. With the older multi-storey flats in the city the cost of having the outside of the panes cleaned is borne by the Housing Revenue Account.

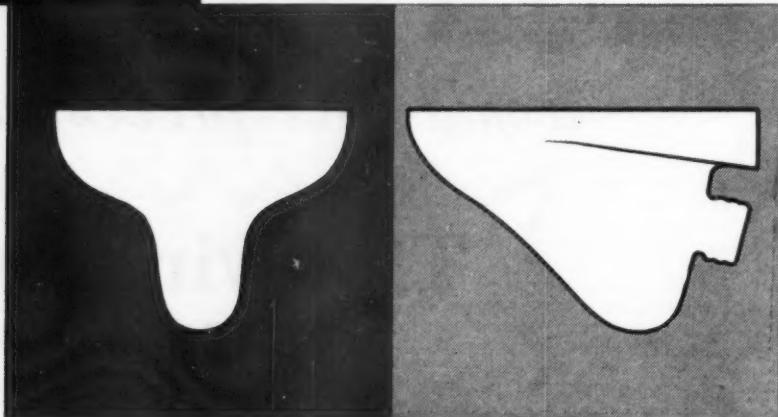
Extract from
"Birmingham
Mail"
Friday, May 22
1959

**Send for List 284a: HENRY HOPE & SONS LTD
Smethwick, Birmingham & 17 Berners St., London, W.1**

MEMBER OF THE METAL  WINDOW ASSOCIATION



design



material

The 'Standard' Sanwall closet—wall-hung to facilitate floor cleaning—is a refreshingly simple design. Beneath its glazed exterior is 'Standard' vitreous china, a non-porous material. Even without its glaze it is non-absorbent. No moisture can enter the body material and swell it, making a 'mosaic' of the glaze and so letting in more moisture. 'Standard' vitreous china is a clean material. It is strong, too, and highly resistant to breakage. For fine design in a really clean and durable material, always specify 'Standard' vitreous china.

vitreous china by **Standard**

MANUFACTURED BY IDEAL BOILERS & RADIATORS LIMITED • IDEAL WORKS • HULL

CURRENT MARKET PRICES (LONDON)

These prices apply to material purchased in the quantities named or otherwise as might be expected for a new building of moderate size. They include delivery and are the material basis used in the build-up of "Measured Rates" and subject to the conditions heading that schedule. Prices are under careful constant review but should be confirmed.

28 October 1959

AGGREGATES AND SAND			
1½in—all in—ballast	26/6	Yard cube	
2in do. do.	27/-	delivered	
2in screened shingle	24/6	(in five-yard	
2in do. do.	25/9	loads or	
2in granite chippings	50/-	more)	
Sharp washed sand	27/6		
Pit sand	24/6		
Building sand	24/-		
Broken brick	21/-		
1½in shingle	22/-		
Cartage of muck	10/-		

BUILDING MATERIALS AS DESCRIBED, CENTRAL LONDON

CEMENTS packed in paper bags				Per ton
Portland in 6ton lots				112/-
Do., from Iton to Ston 19cwt do.				124/-
Do., Rapid hardening (6ton lots)				122/6
Do. (but Iton to Ston 19cwt)				134/6
Cement "Aquacrete" (do.)				156/6
Do., "417" or "Polar" (do.)				156/6
Do., "White" Iton (lots)				277/6

LIME—	134/6 (1ton loads) deliv'd			
Hydrated .. including ..	132/- (2/3 do.) do.			
White .. Bags ..	122/- (4/5 do.) do.			
	120/- (6 do.) do.			

PLASTER—				
Keenes, coarse, pink ..	234/- ton			
Do. do. white ..	239/- do.			
Sirapite, do. ..	175/- do.			
Do. finish ..	183/3 do.			
Hardwall, do. ..	174/- do.			
Plaster, coarse, pink ..	164/6 do.			
Do. do. white ..	174/- do.			
1½in Gypsum Plaster Lath ex works (600sq yds)	2/6½ sq yd.			
1½in Do. do. Wallboard do.	2/10 do.			
3½in Jute scrim (100yd roll) ..	9/4 each			
Cow hair (under 3cwt) ..	109/- cwt			

FIRECLAY—				
In non-returnable bags (1ton lots)	213/- ton delivered			
Fire cement ..	12/3 14lb			

BRICKS				
BACKING BRICKS (in truck loads)—				
Flettons ..	118/- per	1,000	delivered	
Do. Keyed ..	120/-	do.		
Do. bullnose ..	152/6	do.		
Blue wirecuts (Net) ..	542/-	do.		
White ..	202/-	do.		
Southwater engineering (Class A)	400/6	do.		
Firebricks—2½in	95/9 per	100	delivered	
Do. —3in ..	115/-	do.		

STOCK BRICKS—				
Mild stocks ..	185/- per	1,000	at Works	
Second, do. ..	274/-	do.		
First, do. ..	300/-	do.		
<i>Add for delivery—approx. 55/- per 1,000 in lorry loads.</i>				

FACINGS (ex truck or lorry)—				
Rustics ..	150/- per	1,000	delivered	
White ..	220/-	do.		
Blue pressed, 2½in (Net) ..	604/-	do.		
Do. bullnose ..	618/-	do.		
Reds (Multi sand faced) ..	350/-	do.		
White glazed stretchers ..	1696/-	do.		
Do. headers ..	1670/-	do.		
Do. bullnose ..	2120/-	do.		
Do. double stretchers ..	2053/-	do.		
Do. double headers ..	2173/-	do.		
Breeze fixing bricks ..	30/3 per 100			
Fire tile and lumps ..	34/- ft cube			
Wall ties—8in by ½in by ½in, galvanized ..	72/6 per cwt			
Cement mortar (1 : 3) hand-made ..	99/6 yd cube			

BRICKLAYERS' SUNDRIES—				
AIR BRICKS	9 by 3in	9 by 6in	9 by 9in	12 by 9in
Iron .. each	2/5	3/11	5/10	7/10
Galvanized do. do.	4/1	6/9	10/2	13/7
Terra Cotta do.	1/2	2/4	5/7	11/1
Chimney pots, Terra Cotta (11 to 24) do.	1ft	2ft	3ft	4ft
	8/7	14/11	34/1	58/11

PARTITIONS—				
18in by 9in Blocks keyed for plastering				
Per yd super in 6ton lots ..	2in	2½in	3in	
In solid clinker including any half blocks ..	3/10	4/7	5/6	
In cellular clinker blocks ..	3/11	4/7	5/3	
In hollow clay blocks ..	—	4/5	5/5	

SINKS—				
Fireclay white glazed in and out—standard quality	24 by 18in	30 by 18in	30 by 20in	
London pattern, no overflow,				
6in deep ..	73/-	90/9	100/9	
Belfast, plain edge, 10in deep	86/6	144/6	194/9	

FLUE, LININGS, PLAIN, CIRCULAR (FIRECLAY)—				
	Foot linear		Each	
	Straight		Bends	
9in diameter ..	..	..	4/8	14/-
10in do. ..	..	..	5/8	17/-
12in do. ..	..	..	10/9	32/9
9in diameter, beaded end, 12in high ..	..	..	6/3	

FLUE PIPES AND FITTINGS—				
	4in	5in	6in	
Heavy asbestos type, 6ft length ..	18/6	25/6	32/6	
Do. 3ft length ..	9/3	12/9	16/3	
Do. bends ..	7/2	9/-	10/8	
Light asbestos type, 6ft lengths ..	16/-	20/-	25/6	
Do. 3ft length ..	8/-	10/-	12/9	
Bends ..	5/7	7/1	8/8	
Baffler ..	15/5	18/4	19/4	

DRAINAGE GOODS				
	4in	6in	9in	
ORDINARY TYPE—Each				
Pipes in 2ft lengths ..	3/4	5/-	9/-	
Bends ..	5/-	7/6	20/3	
Junctions (4in on 4in, 6in on 6in, 9in on 9in) ..	8/4	12/6	27/-	
Gullies with 4in outlets ..	12/6	13/9	22/6	
4in horizontal inlets ..	4/-	4/-	4/-	
4in vertical do. ..	6/-	6/-	6/-	
Black iron grids ..	1/6	2/10	5/6	
Adjustment to Current Cost				
2ton lots or more				
2in to 9in diameter "Best" pipes and fittings.	50 pieces	Under		
Percentages to add ..	—22 ½ %	—5%	NET	
Further percentages to be independently added in respect of:				
British Standard pipes, etc., 10. "Best" Tested pipes, 37½				
British Standard Tested, 47½.				

IRON DRAINAGE GOODS—				
Each	4in	6in		
Cast iron pipes, 9ft long ..	84/6	123/9		
Do. 6ft do. ..	60/4	92/10		
Do. 4ft do. ..	46/1	71/2		
Do. 2ft do. ..	28/-	42/2		
Short bend ..	19/-	50/7		
Junction ..	33/8	70/6		

CURRENT MARKET PRICES (Continued)

DRAINAGE GOODS—Continued				
	4in	6in		
GULLEY PARTS—				
Traps, high level, invert	33/8	91/4	each	
Inlet, bellmouth pattern	17/8	35/7	do.	
Do. with one vertical branch	31/-	58/2	do.	
Do. with two do.	84/-	122/3	do.	
Extra for sealed cover	10/8	13/10	do.	

RAINWATER SHOES—				
	4in	6in		
With vertical inlet and rebated top	44/1	87/9	each	
Extension piece	19/4	23/3	do.	
Flat loose coated grating	4/7	4/7	do.	
Loose solid coated cover	6/2	6/2	do.	

MANHOLE CHANNELS, WHITE GLAZED—				
	4in	6in	9in	
Each				
Straight, 2ft long	17/5	25/6	42/11	
Taper, do.	29/-	29/-	44/-	
Bends, main, half section	33/8	48/9	80/-	
Do., branch, do.	20/11	29/-	—	
Do., do. three quarters, do.	29/-	46/6	—	
functions, single	27/10	48/9	—	
Do., double	38/3	66/3	—	

BROWN GLAZED CHANNELS—				
Based on standard list (less than 100 pieces)				
	4in	6in	9in	
Half-round main channel (2ft long)	2/6	3/9	7/-	
Extra for stop ends	2/6	3/9	6/9	
Extra for outlets	5/-	7/6	—	
Channel bends with splayed ends	7/6	11/3	—	
Three-quarter section do.	10/-	15/-	—	

MANHOLE COVERS—				
	Black			
24 by 18in foot traffic	29/3 each			
Do. Strong do.	53/9 do.			
Do. Light car traffic	95/3 do.			
Do. Road traffic	119/3 do.			

SUNDRIES—				
	Galvanized			
Manhole steps	9/3	each		
4in Mica valve fresh air inlets	16/-	do.		
Plumber's hemp	9/-	per lb		
Gaskin, caulking	1/5	do.		
Canvas backed hair felt, 4in wide	9d	per ft run		

ROOFING MATERIALS

WELSH SLATES (delivered)—

Sizes in inches	per 1,000	Full Loads	Quantity	
			500 to per 100	1 to per doz
22 by 11	2246/-	265/-	39/-	
20 by 10	2021/6	237/6	35/-	
18 by 10	1413/-	164/6	24/3	
16 by 10	1120/-	131/-	19/3	
14 by 9	668/-	70/9	10/6	
14 by 4½	328/-	31/-	4/9	

TILES (Brosley and Staffordshire)—		
	per 1,000	per 100
10½in by 6½in Machine made, 6 ton lots	302/6	44/9
Do., hand made, sand faced (Berks red)	327/-	58/-
Hips, valleys and angles	36/3 per dozen	
Plain concrete tiles	210/6	25/6

Sheeting asbestos corrugated, 6in pitch	8/3½	yd super
4½in by 16 gauge, drive screws (galvanized)	17/9	gross
7½in by ¾in hook bolts and nuts (do.)	57/9	do.
Washers, round, flat galvanized	4/10	do.
Do. do. bituminous	2/-	do.

ROOFING FELT—		
	1/1 yd super	
Sanded bitumen felt (44lb)	1/7 do.	
Do., but 60lb in weight	2/11 do.	
Indororous felt, best quality	2/3 do.	
Do. second quality	1/8 do.	
Underlining	1/8 do.	
Sheathing	1/8 do.	
Galvanized felting nails	2/4 lb	

THERMAL INSULATION—

tin Insulating Gypsum Baseboard (600sq yds)	2/9 sq yd
Do. Do. Lath	2/9 do.
Do. Do. Wallboard	3/- do.
tin Asbestos (Fully-compressed) Sheet	8/4 do.
tin Insulating Cork Slabs	7/6 do.
Silicate Cotton (2ton lots)	1/6 ft cube

STONE

PER FOOT CUBE in random blocks not exceeding 20ft cube in each, free on rail London.
 Monks Park 9/7 St. Aldhelm 10/10
 Portland brown Whitbed 9/2
 Doultong 10/2 Beer 9/-

TIMBER

Softwood—sawn—random lengths.				
	Per standard	Per cubic ft		
Carcassing quality	£105	12/8		
Joinery quality	£125 and up	13/4		
Plain edged unsorting flooring	1in 1in	1½in 1½in		
per square	90/-	110/-	138/-	165/-
tin Hardboard 4/1 sq yd.				
Larger quantities cost less.				

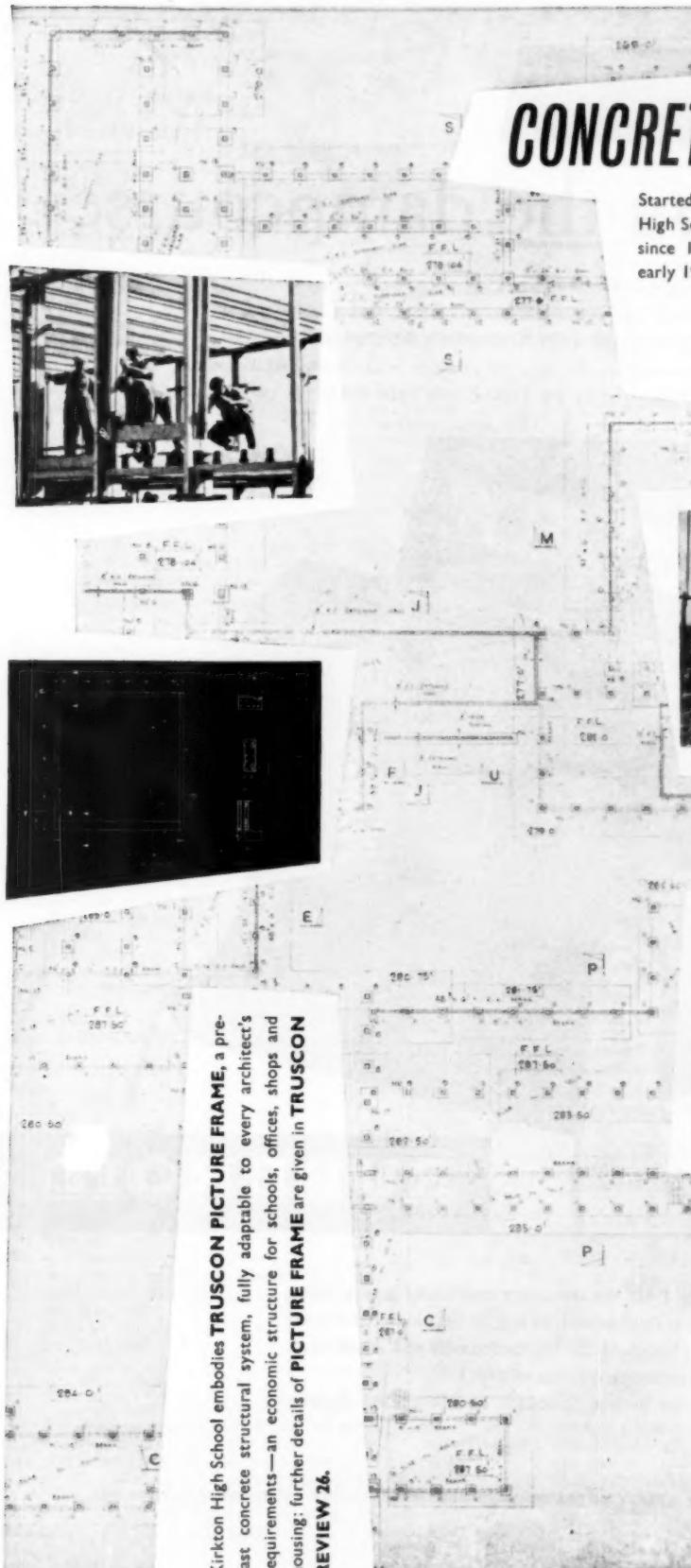
SUNDRIES—		Dia.	3in	6in	9in
Black hexagon		½in	10d	1/2	1/5
bolts, nuts and washers. Each		½in	1/3	1/8	2/1
Per yd Run		1/9	2/4	3/-	
Floor brads		10d	1/1½	1/5	
Cut Clasp Nails		...	84/3 per cwt		
Steel ordinary screws	1in No. 8 3/8	2in No. 8 6/3	per		
Brass, do.	9/8	Do.	17/-	gross	

HARDWOOD. Normal joinery quality.			Per ft cube
Mahogany, African	Square edge	...	30/-
do. Honduras	do.	...	66/-
Teak, Burma and Siam	do.	...	78/-
Walnut, Australian	do.	...	84/-
Oak, English	Sawn Logs	...	42/-
do. Yugoslavian	do.	...	47/6
Walnut, African	do.	...	25/-

Description	Rate	Unit	
16mm Birch blockboard	202/-	Per 100ft	
22mm do.	245/-		
Austrian Mahogany faced one side, blockboard 18mm thick	348/-	super,	
Austrian figured Oak faced one side, blockboard 19mm thick	407/-	but	
Beech, 6mm plywood	108/-	from one board	
Birch, do.	81/-		
Do. 9mm do.	115/-	up to	
Teak faced one side, plywood 6mm thick	374/-	a	
Austrian figured Oak one side, 6mm	224/-		
Australian do. Walnut do. do.	383/-	bundle	

IRONMONGERY

	2in	3in	4in	5in	6in
	1/4½	2/4	3/7	6/11	9/8
Cast iron Butts, per pair	8/3	12/9	16/9	22/3	
Hinges, spring, single action regulating, japanned, each	—	8/3	12/9	16/9	22/3
Do. but double action	—	17/6	22/3	21/-	35/9
Spring only, each	—	10/3	14/-	28/-	24/3
Do. blank only, each	—	—	—	—	—



Kirkton High School embodies **TRUSCON PICTURE FRAME**, a pre-cast concrete structural system, fully adaptable to every architect's requirements—an economic structure for schools, offices, shops and housing; further details of **PICTURE FRAME** are given in **TRUSCON REVIEW 26**.

CONCRETE CONSTRUCTION

Started last March, and growing apace, Dundee's Kirkton High School will be the largest school to be built in Scotland since 1939. Occupation of the first phase is planned for early 1960.

ARCHITECT: Robert Dron, A.R.I.B.A., F.R.I.A.S.
CITY ARCHITECT AND DIRECTOR OF HOUSING
REINFORCED CONCRETE DESIGNERS &
MAIN CONTRACTORS: Truscon Limited
GENERAL SUBCONTRACTORS: Charles Gray Limited

Take ASTOS the dampcourse

— for permanence, for a toughness that withstands vibration and normal foundation settlement, for easy identification on site. ASTOS, Standard or lead-lined, the original asbestos/bitumen dampcourse, complies with the British Standard requirements (B.S. No. 743, 1951). 24 ft. rolls, in wall widths up to 36 in. Standard (Type 5C) 7-lb. per sq. yd. Lead-lined (Type 5F) 9½-lb. per sq. yd.



Take Zylex Slaters' Felt as a secondary roof under tiles or slates, to prevent damage due to roof defects, to reduce heat loss. Reinforced Zylex for open rafters, Standard for boarded roofs, and Aluminium Foil Surfaced for even greater reduction of heat loss.

Take ASTOS and ZYLEX for perfect protection and insulation. Specify them together.

For technical literature write to:

THE RUBEROID COMPANY LIMITED 94 COMMONWEALTH HOUSE • 1-19 NEW OXFORD STREET • LONDON WC1



CURRENT MARKET PRICES (Continued)

IRONMONGERY—Continued						
	12in	18in	24in	30in	36in	
Tee hinges (japanned) per pair ..	2/-	3/10	—	—	—	
Do., but stronger, per pair ..	3/4	6/1	8/3	—	—	
Hook and Ride hinges, per pair ..	—	—	13/4	16/3	24/10	
BOLTS—each—	3in	4in	6in	8in	10in	12in
Cabinet, barrel, straight or necked ..	1/6	1/8	2/3	—	—	—
Square spring, with brass knob ..	1/4	1/6	1/11	—	—	—
Tower bolts ..	—	1/10	2/8	3/6	4/5	5/2
Barrel bolts ..	—	2/9	4/-	5/2	6/8	8/1
Add to Tower or Barrel bolts if necked ..	1d	1d	1d	1d	1d	1d

LOCKS—each—

Rim lock, 2 lever, wrote case, brass bolt and bushing ..	12/9	Brass furniture ..	5/-
		or Bakelite do. ..	3/3
Mortice lock, 2 lever, bushed ..	12/9	Bakelite finger-plates ..	2/8
		Brass furniture ..	8/9
		or Bakelite do. ..	3/10
Cylinder latches, japanned case ..	—	..	16/-
Brass sash fastener ..	—	each	5/-
Casement fasteners (malleable) ..	—	do.	1/7
Do. stays (do.) ..	—	do.	2/2
Axle pulleys (brass face, iron wheel) 1½in ..	—	do.	3/3
Do. as last, but with brass wheel 1½in ..	—	do.	4/11
Sash line, No. 8 Anchor, yellow label ..	—	per yard	1/-

METAL GOODS

British rolled steel joists ex mills to basis sections on site (6in by 5in, 8in by 5in or 6in, and 10in or 12in by 6in) £43/10/0 per ton

Extra cost over basis for following sections—

9in or 18in by 7in, 14in by 5½in, 15in by 5in, 14in or 15in or 16in or 18in by 6in, 20in by 6in, 20in by 7½in, 10in or 12in or 14in or 18in by 8in ..	10/- per ton
5in by 4½in, 7in by 3½in, 13in by 5in ..	15/- do.
12in by 5in, 22in by 7in ..	20/- do.
6in by 4½in, 7in or 8in or 9in by 4in, 10in by 5in ..	25/- do.
4½in by 3in, 10in by 4½in ..	30/- do.
5in by 2½in, 5in by 3in ..	35/- do.
6in by 3in, 24in by 7½in ..	40/- do.
3in by 3in ..	50/- do.
4½in by 1½in ..	65/- do.
3in by 1½in, 4in by 1½in ..	70/- do.
1in mild steel reinforcing rods ex mill d/d ..	£41/9/0 do.

Extras per ton

2in or 3in diameter in size ..	15/- per ton
2in ..	30/- do.
3in ..	62/6 do.
3in ..	92/6 do.
4½in ..	132/6 do.
5in ..	172/6 do.

Extras for length

5ft to 3ft ..	7/6 do.
3ft to 2ft ..	15/- do.
2ft ..	22/6 do.
40ft to 45ft ..	15/- do.
45ft to 50ft ..	22/5 do.

Bolt and Nuts

Trench covering, including trays 1½in deep and rebated frames, 9in wide ..	25/- foot run
Do., but 12in wide ..	27/- do.
Do., but 14in wide ..	30/- do.
Do., but 18in wide ..	39/- do.

METAL SUNDRIES

Cast iron pavement lights with 4in by 3in prism and convex lenses in alternate rows ..	per 33/- ft super
Iron single fire doors, panelled both sides, pivot hung and self closing, to angle frame rebated and lagged, to meet fire regulations ..	54/- do.
24 gauge galvanized Tallboy 6ft high, 9in diameter with 9in by 12in base ..	55/- each

CHAIN LINK FENCING—

In 25 yards lineal rolls inclusive of line wire.						
2in mesh	Height in inches—					
10½in wire gauge ..	36	42	48	60	72	
12½ do. ..	128/-	149/-	170/3	213/6	256/-	
14½ do. ..	89/-	104/-	118/3	148/6	178/-	
	62/3	72/9	82/9	104/-	124/6	

DOUBLE SOOT DOORS AND FRAMES—

Fitted with brass turn-buckle and cast key ..	9in by 9in	12 in by 9in	14in by 12in
	21/6	31/3	54/-

SLIDING DOORS, GATES AND PARTITIONS—

Factory sliding doors in two leaves containing about 100sq ft with mild steel angle frames covered with 24 gauge corrugated galvanized sheeting and including hanging tubular track and gear complete ..	18/6 ft super
Factory entrance gates with mild steel frames clad with 2in mesh chain link complete ..	16/6 do.

STEEL ROOF LIGHTS—

In Skylights and Lanterns, Standard type with puttyless glazing, lead flashings, and ½in rough cast glass; in the case of Lanterns 18in vertical sashed sides are provided in addition.	Size at Base	6ft by 4ft	8ft by 6ft	10ft by 8ft
Skylights ..	..	£35 5	£50 10	£69 10
Lanterns ..	..	£55	£76 5	£110

HIGH GRADE DOMESTIC BOILERS—

Coke Fed. Performance 20 to 40 gallons raised from 40°F to 140°F per hour as under.

TYPE		£	s.	d.
20 gallons per hour	Enamel finish ..	..	11	10 0
15in wide, 23in high	Do. Grey Mottle ..	..	20	10 0
25 gallons per hour	Do. Cream Mottle ..	..	22	0 0
17in wide, 26in high	Do. Cream Mottle ..	..	38	0 0
40 Gallons per hour				
22in wide, 30in high				

GAS, WATER AND STEAM TUBES

BASIC PRICES

Internal	½in &	¾in	1in	1¼in	1½in	1¾in	2in
Diameter—	½in	¾in	1in	1¼in	1½in	1¾in	2in
Tubes per ft	9½d	10d	1/-	1½	1/9	2/3	2/8
Bends each	1/7	1/9	2/-	2/6	3/8	5/5	6/2
Elbows, sq. do.	1/8	1/10	2/2	2/6	3/-	4/4	5/2
Do., round do.	1/10	2/-	2/4	2/10	3/4	4/8	5/8
Tees .. do.	2/-	2/2	2/6	3/2	3/8	5/-	6/2
Crosses do.	4/4	4/8	5/6	6/6	8/2	11/-	13/2
Backnuts do.	4d	4d	6d	7d	10d	1/-	1/4
Sockets do.	6d	6d	8d	10d	1/-	1/4	2/6
Sockets dimin. do.	8d	10d	1/-	1/2	1/6	2/-	2/8

EX. STOCK IN ORDERS OF £10 OR MORE

DISCOUNTS OFF BASIC LIST.

TUBE—

Black	Galvanized
Medium (Blue)—35%	Medium—25%
Heavy (Red) —25%	Heavy —15%

FITTINGS—

Black	Galvanized
Heavy —10%	Heavy —2½%

RAINFOWTER GOODS (Painted or Unpainted

In consignments of 5cwt and over

From Standard List

Pipe:	2in	3in	4in	5in	6in
6ft lengths ..	each	12/10	14/5	18/11	24/8
3ft do. ..	do.	7/-	7/9	10/-	13/1
Shoe, ordinary ..	do.	2/7	3/10	5/7	9/5
Bend ..	do.	3/1	4/4	6/4	11/3
Branch, single ..	do.	4/6	6/7	9/3	14/7
Offset, 4½in ..	do.	3/9	5/3	7/9	12/11
Do. 9in ..	do.	4/11	6/6	9/8	15/3
H.R. gutter, 6ft length ..	do.	—	6/-	8/5	10/4
Angle or nozzle ..	do.	—	2/6	3/1	5/4
Stop end ..	do.	—	9d	1/1	1/6
				1/9	1/9
				Above plus	22½%

CURRENT MARKET PRICES (Continued)

PLASTERING MATERIALS

Sand, lime, cement and various plasters are previously included under those heads—	
Metal lathing (1in by 24G) (20 yards) ..	4/- sq yard
Plaster baseboard (1,200 yards) ex works ..	2/4 do.
Lath nails, galvanized ..	1/1 lb
White glazed tiles (6in by 6in by 1in) ..	25/3sq yard
Do. rounded on one edge ..	30/6 do.
Do. on two adjoining edges ..	33/9 do.

PLUMBER'S GOODS

4lb lead sheet (in 1-ton lots)	109/- per cwt
Lead water pipe in coils (do.) ..	111/3 do.
Plumber's solder ..	3/7 lb
Copper tacks ..	8/5 do.

IRON SOIL AND WASTE PIPE. (5cwt lots and up)

each	2in	3in	3½in	4in
4in Medium pipe, 6ft length ..	14/6	17/2	19/3	21/11
Do., 4ft length ..	10/5	12/2	13/7	15/5
Bends ..	5/4	6/6	8/1	9/1
Do., with oval door ..	17/4	18/6	21/1	24/7
Junction, single ..	6/6	9/8	11/3	13/3
Do., with oval door ..	18/6	21/8	24/3	26/3
Swan necks, 4½in ..	6/6	10/3	11/9	13/9
Do., 9in ..	8/8	11/9	13/9	16/1
Holderbat, 2½in projection ..	5/9	5/11	6/3	6/4
				Above plus 22½%

GALVANIZED CISTERNS, TANKS AND CYLINDERS—
(Less than three)

each	gallons			
	Nominal capacity			
CISTERNS	100	150	200	300
Bends over tops and corner plates. Riveted or welded	162/-	234/6	295/-	416/-
14 gauge ..	197/-	291/-	343/-	463/-
12 gauge ..	225/-	338/-	398/-	541/-
HOT WATER TANKS				
Riveted and with hand hole and ring ..	20	25	30	40
12 gauge ..	137/-	151/-	164/-	190/-
4in plate ..	153/-	168/-	184/-	211/-
HOT WATER CYLINDERS—				
Riveted, with handhole and ring ..	20	25	33	39
12 gauge ..	180/-	197/-	220/-	238/-
4in plate ..	196/-	216/-	242/-	261/-

PLUMBER'S BRASSWORK, etc.

	Each	1in	1½in	2in	2½in
Boiler screws, single nut ..	1/6	1/11	3/3½	5/7	
Do., double nut ..	2/2	2/9	5/2½	7/2	
Cap and lining ..	1/1	1/6	1/10	2/0	
Plumber's unions ..	2/4	2/11	4/—	7/1	
Ball valves, screwed iron ..	13/7	21/1	—	—	
Do., fly nut and union ..	14/7	22/7	—	—	
Bib valves, crutch top screwed iron ..	8/3	12/3	—	—	
Do., but screwed boss ..	9/5	13/10	—	—	
Stop valves, screwed iron ..	7/3	10/—	—	—	
Do., screwed iron and union ..	9/—	13/3	27/—	—	
Do., double union ..	10/3	14/6	29/3	—	
Waste, plug chain and stay ..	—	—	8/—	9/—	
Caps and screws ..	1½in	1½in	2in	4in	
Sleeves, long ..	3/3	4/2	6/—	—	
Do., short ..	—	—	7/4	10/7	
Thimble ..	—	4/—	4/2	8/4	
Full way gate valves, hot pressed ..	20/6	28/6	—	—	
Lead 7lb P. trap ..	—	6/7	8/7	12/—	
Do., S. trap ..	—	8/1	10/8	14/11	
Lead 6lb P. traps with 3in seal ..	—	7/4	8/10	—	
Do., but S. traps, do. ..	—	9/1	11/2	—	
Wire balloon guards, copper, 2in, 3/3; 4in 3/6					
Do., galvanized iron, 2in 1/11; 4in 2/1					
Hair felt 34in by 30in, 24oz, 6/- sheet					
Boss white jointing compound, 2/3lb					
Gasket 1/10lb. Hemp, 9/-lb.					

COPPER TUBES—Extract from B.S. 659/1955—

Nominal bore	Outside diameter	Gauge	Weight lb per ft	3cwt lots per lb	3cwt lots per ft
4in	0.596	19	0.27	42½	11.41
4in	0.846	19	0.39	40½	15.80
5in	1.112	18	0.62	39	24.18
5in	1.362	18	0.76	38½	29.17
5in	1.612	18	0.91	38½	34.93
6in	2.128	17	1.40	40	56.00

CAPILLARY TYPE CONNECTIONS—

Add for delivery and packing on orders under £10.

All ends copper to copper

Each	1in	1½in	2in	2½in	3in	3½in	4in	5in	6in	7in	8in	9in	10in
Straight ..	..	1/11	2/8½	4/3	5/6	7/6	10/9	—	—	—	—	—	—
Elbow ..	..	3/10	4/9½	6/4	8/1	13/—	26/6	—	—	—	—	—	—
Tees ..	..	4/7½	5/5	8/7½	12/9	18/—	26/6	—	—	—	—	—	—
Brackets (Brass) ..	2/—	2/4	2/7	—	—	—	—	—	—	—	—	—	—

GLASS

	Per foot superficial
English, flat drawn sheet glass cut to sizes in squares ..	24oz 26oz 32oz
Figured rolled, white cut to sizes in squares (1in) ..	10½d 1½d 1½d
Ditto, but in standard tints ..	Per ft super
1in Roiled, cut to size, in squares ..	1/1½d do.
1in rough cast do. ..	1/5½d do.
1in do. wired do. ..	1/9½d do.
Georgian wired do. ..	1/9½d do.
Fluted (No. 4) do. ..	1/11½d do.
1in Reeded ..	2/3 do.
1in Reedlyte (narrow and broad) do. ..	1/6 do.
Spotlite do. ..	1/6 do.
1in Calorex Cast do. ..	1/8 do.
Flashed Opal (15/18oz) up to 1ft super ..	4/2 do.
do. do. over 1ft super ..	5/- do.
Pot Opal (15/18oz) up to 1ft super ..	4/2 do.
do. do. over 1 ft super ..	5/- do.

POLISHED PLATE GLASS (Tariff) Cut to sizes.

Ordinary substance 1in and 1½in thick.

Per Superficial ft	General Glazing
In plates not exceeding:	
2ft super in each ..	.. .. .. .. 4/7
5ft do. ..	.. .. .. .. 5/7
45ft do. (unless extra sizes) ..	.. .. .. .. 6/9
100ft do. (do.) ..	.. .. .. .. 7/4

Extra sizes, i.e., Plates exceeding 100ft super or 160in one way or 96in both ways at higher prices.

DECORATING MATERIAL

	Price	Unit
Aluminium Paint ..	42/-	Gallon
Distemper, ceiling ..	38/-	Cwt
Distemper, washable ..	120/-	do.
Enamel ..	60/-	Gallon
Gold Metallic Paint ..	79/-	do.
Heat Resisting Paint ..	40/-	do.
Japan, black ..	35/-	do.
Knotting ..	40/-	do.
Linseed Oil ..	16/6	do.
Boiled, do. ..	17/-	do.
Proprietary Paints (good class)—		
Finishing ..	57/6	do.
Priming ..	62/-	do.
Undercoat ..	57/-	Cwt
Paperhanger's Paste ..	36/6	Cwt
Petrifying liquid ..	9/-	Firkin
Putty ..	54/-	Gallon
Size ..	12/3	Firkin
Terebine ..	22/-	Gallon
Turpentine substitute ..	6/5	do.
Varnish, oak, copal inside use ..	39/-	do.
Do., do., outside use ..	41/-	do.
Do., white, eggshell, flat ..	50/-	do.
White lead mixed paint ..	66/6	do.
White lead ..	167/6	Cwt
Whiting ..	13/3	do.



The only drainage system for sites like this

Squelching round a waterlogged site at least makes you thankful that you specified pitch fibre pipes. Drain-laying goes on regardless of rain or frost, keeping your progress schedule up to date. That's when you bless those simple, precision joints that need not wait on the weather. There are so many good reasons for specifying pitch fibre pipes. May we remind you of seven?

Pitch Fibre Pipes

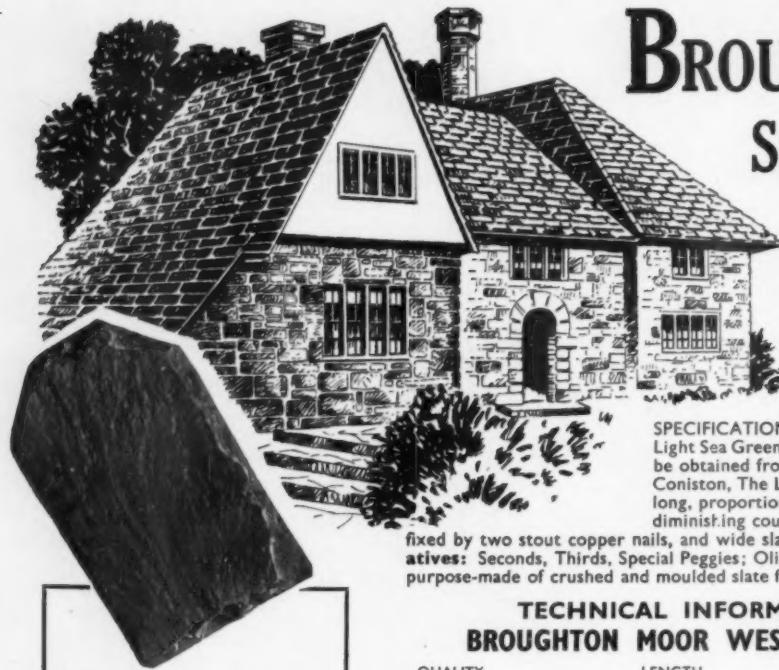
Write for advice to: The Secretary, P.F.P.A., 27 Chancery Lane London WC2 · Telephone Chancery 6001

ISSUED BY THE PITCH FIBRE PIPE ASSOCIATION OF GREAT BRITAIN
THE KEY ENGINEERING CO LTD · LIMEHOUSE PAPERBOARD MILLS LTD · UNION FIBRE PIPES (GREAT BRITAIN) LTD

SEVEN reasons why pitch fibre pipes cut your costs

- Laying, testing and backfilling are simple and swift—rates up to 500 ft. an hour can be achieved with semi-skilled labour
- Concrete and cement joints are unnecessary
- Schedules can be maintained regardless of weather conditions
- Pitch fibre pipes are light, non-brittle and precision made to BS 2760
- Wastage caused by breakages on site is drastically reduced
- Corrosion, root penetration, water infiltration and cracking through settlement are all eliminated
- Improved hydraulic flow makes flatter gradients possible





BROUGHTON MOOR SLATES & STONE

are Nature's own supreme protection for the home of man against the vagaries of time and weather. Quarried from the ruggedly beautiful Westmorland Mountains near Coniston—the land that Ruskin knew and immortalised—these famous slates and stone are renowned for their extreme durability and the colourful picturesqueness of their Light Sea Green, Olive Green and Mixed hues.

SPECIFICATION. The roof to be covered with Broughton Moor Light Sea Green Best Quality (coarse grained) Westmorland Slates, to be obtained from the Broughton Moor Green Slate Quarries, Ltd., Coniston, The Lake District, Lancs., in random sizes about 18" to 9" long, proportionate and random widths, laid to a 3" lap in regularly diminishing courses from eaves to ridge. Each slate to be securely fixed by two stout copper nails, and wide slates are to be used on the hips and verges. **Alternatives:** Seconds, Thirds, Special Peggies; Olive Green and Mixed Shades. **Ridging:** "Bromoar" purpose-made of crushed and moulded slate from the same veins is recommended.

TECHNICAL INFORMATION CONCERNING BROUGHTON MOOR WESTMORLAND GREEN SLATES

QUALITY	LENGTH (Random widths)	COMPUTED COVER in. sq yds. per ton (3" lap)	APPROX. WEIGHT Per square (3" lap)—cwt.
BESTS	from 18" to 9"	24	9
SECONDS	from 18" to 9"	20	10½
THIRDS	from 18" to 12"	18	12
SPECIAL PEGGIES ...	from 15" to 7"	22	9½
SECOND PEGGIES ...	from 10" to 7"	20	11

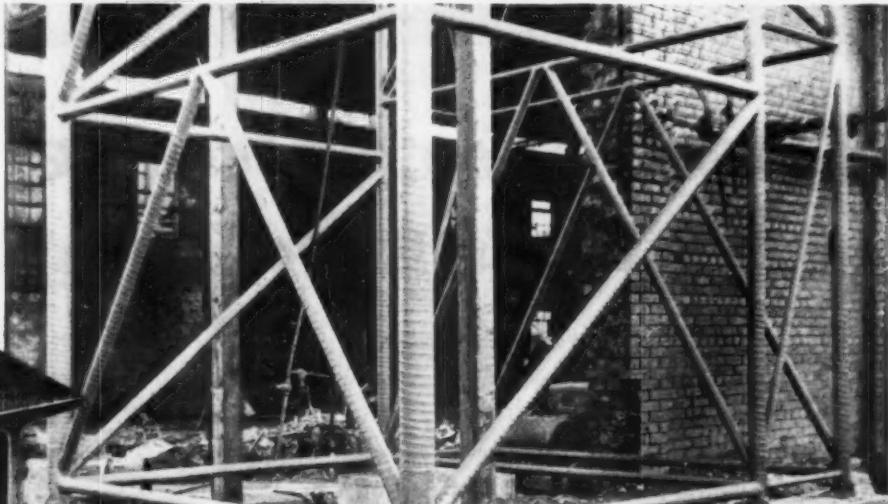
Samples and prices gladly sent. Immediate Delivery.

THE BROUGHTON MOOR GREEN SLATE QUARRIES Coniston, Lancashire

LTD.

Telegrams: Cann, Coniston

Telephone: Coniston 225/6



DENSO protection for

ALL STRUCTURAL STEELWORK

—tubular or girder—is Complete and Permanent



WINN & COALES LTD.
LONDON & MANCHESTER

CURRENT MEASURED RATES (LONDON)

These apply to new work of normal character and some size. These rates are for time and materials only and carry 10 per cent in excess, so the appropriate essential on-costs should be added. The basis cost of material used in the calculation of these prices is taken from the foregoing tables which carried up to October 28, 1959.

(COPYRIGHT)

ESSENTIAL ON-COSTS

Fees payable to L.C.C. for District Surveyor:

The new buildings of ordinary construction not exceeding 5,000 cubic feet

Sectional inches	Lintols and beams	Columns and casings	Braces and projections	Per cubic ft
Up to 36 ..	4/7	5/2	5/4	Per cubic ft
36 to 72 ..	4/8	5/-	5/2	do.
72 to 144 ..	4/5	4/11	5/1	do.
over 144 ..	4/3	4/10	5/-	do.
Walls 6in thick ..	..	..	..	18/- Per super yd
Do. 9in thick ..	..	..	..	29/1 do.
Suspended floors average 6in thick ..	..	..	..	19/8 do.

Over 5,000 cubic feet for every extra 1,000 cubic feet up to 1,000 cubic feet add

REINFORCING RODS (round) bent and placed. (Ex Mills)—	Per cwt	1/2in	1in	1 1/2in
In floors and beams ..	92/-	80/-	75/9	67/6
In walls ..	98/-	85/-	79/9	70/6
In columns ..	105/6	90/3	81/-	73/9

Buildings over four storeys add 3d per 1,000 cubic feet extra for each storey up to eight.

FORMWORK and Supports (4 times use)—	Floor softs	Beams	Walls	Columns
20/3 per yard	3/-	2/8	2/8 per super ft	

ALTERATIONS AND ADDITIONS

Up to £100 cost ..

BRICKWORK

BRICKWORK per YARD superficial reduced to ONE BRICK in thickness (scaffold to add)— In 1 : 3 cement mortar

Over £100 up to £1,000— Per £100 cost .. 15/-

Flettons or other similar at 118/- per 1,000 .. 42/-

Over £1,000 up to £5,000— Ditto .. 5/-

Mild Stocks or do., at 174/- per 1,000 .. 57/9

Over £5,000— Ditto .. 3/-

Second Stocks or do., at 329/6 per 1,000 .. 66/-

Public buildings add 50%.

Southwater engineering or similar bricks, at 400/6 per 1,000 .. 78/-

Steel framed or R.C. buildings.—See L.C.C. (General Powers Act

1955) also fees in respect of means of escape in case of fire.

Allowance to cover National Insurances, Holidays with Pay and Public Holidays, Welfare, Third Party Risk, Travelling and Guaranteed Week is made in the rates attached to the items.

Allow for Fire Insurance .. 1/6%

In 1 : 3 Portland Cement mortar .. 2d

Allow for Water for use on the works and apparatus .. 5/-%

Add if brickwork commences above ground level .. 4/9

Allow for hoarding, or similar licences in City of London say £10

Do. under Borough Councils per month .. say 2/6

Allow for Office, Fire, Attendance on C. of W., etc. p. week say 30/-

Do. If circular-on-plan .. 9/-

Do. If in underpinning .. 9/-

Do. If in back to masonry including cutting and waste for bonding .. 3/10

ADMINISTRATION AND CONTROL

Do. If in pointing as work proceeds, per side .. 1/9

Percentage costs on normal contracts in accordance with Builders Turnover per Annum see appropriate column hereunder:

Thickness to old walls, including cutting, toothing and bonding to same an average total thickness of 1/2 brick .. 57/-

Turnover in Thousands

Do. all as last but an average total thickness of 1/2 bricks .. 78/-

Place .. 25 50 75 100

1 Brick 11in Hollow with 2in cavity and G.I. TIES

At depot .. 13% 9% 7% 6%

Brick, on edge walls fair both sides

On job .. 6% 5 1/2% 4 1/2% 4 1/2%

18/3 23/4 43/1

SPOT ITEMS AND DEMOLITION, ETC.

31/- 41/- 73/-

Per ft run

Hoarding erected and removed .. 20/-

1/9 1/11 1/9 Stock

Planked gangway with handrail, etc. do. 10/-

Thickness to old walls, including cutting, toothing and bonding to same an average total thickness of 1/2 brick .. 57/-

Proper gantry do. 78/-

Do. all as last but an average total thickness of 1/2 bricks .. 78/-

Sleeper roadways .. 16/6

102/6

Needling, strutting and shoring including all labours and use and waste in erection and removal .. 20/-

ALTERATION-DEMOLITION—

Per yard superficial

Brick 1 1/2 2 2

Brick, on edge walls fair both sides

(Per ft super) 1/3 2/6 3/7 64/-

18/3 23/4 43/1

Cutting out cement concrete or brickwork in small quantities .. 64/-

1/9 1/11 1/9 Stock

Do. if either in very small quantities or reinforced .. 95/-

Thickness to old walls, including cutting, toothing and bonding to same an average total thickness of 1/2 brick .. 57/-

Debris into baskets and removed from inside to outside of bldg. 3 1/2 d 7d 9d 14/-

Do. all as last but an average total thickness of 1/2 bricks .. 78/-

SCAFFOLDING (Avg. 45ft high)

1/9 1/11 1/9 Stock

Per yard superficial 1 month 3 months 5 months

Half-Brick One Brick

Putlog type—4ft 6in lift 8/- 10/6 13/6

Per yd super do.

Do. —6ft 0in do. 5/6 8/- 10/6

In first quality Stocks at 355/6 44/- 73/-

Independent type—4ft 6in lift 10/6 14/6 19/-

In red facings at 330/- 38/6 67/9

Do. —6ft 0in do. 7/6 10/6 13/-

In blue pressed facings at 604/- 60/- 104/9

EXCAVATION

GENERAL AND SUNDAY

Common Soil Loamy Clay Gravel Rock or similar

Cut tooth and bond new brickwork to old .. 5/9 per ft

Reducing levels .. 7/- 8/4 9/9 64/3

Damp proof course, double slate, horizontal .. 4/9 super

Surface trench not exceeding 5ft deep .. 14/1 16/10 22/5 79/10

Do., as last, but vertical .. 5/9 do.

Do. from 5ft to 10ft .. 25/9 28/11 34/7 87/2

Do., bitumen, Hessian base, horizontal .. 1/- do.

Do. from 10ft to 15ft .. 29/3 34/10 40/11 95/4

Frames, bed and point in cement mortar, one side 4 1/2 d per ft run

Fill in and ram .. 5/9 6/4 6/4 6/2

Window board of 6in by 6in by 1/2in rounded on edge .. 4/3 do.

Barrowing 25yd .. 3/3 3/7 3/7 4/2

quarry tiles, bedded, pointed, cut and fitted .. 4/3 do.

Load, vehicles and tip 8 miles away .. 17/9 17/9 18/9 19/7

Terra-cotta air bricks built in and pointed, including flue .. 6/6 11/6 each

PLANK AND STRUT

Chimney pots, plain red, set and flaunching in cement mortar .. 1ft high 2ft high

To trenches, in normal ground .. 7d 8 1/2 d 10d

Metal windows, assembled, hoisted and fixed, lugs cut and pinned and frames bedded and pointed one side in cement mortar .. Up to 5ft 5ft to 10ft super

CONCRETE 1 1/2 in Ballast Aggregate

15/2 18/9 each

1 : 3 : 6 Cement concrete in foundations 80/-

10ft to 20ft super

Do. around grillages 83/-

28/5 47/- each

REINFORCED CONCRETE

Leaving holes through walls for pipes and afterwards making 3d per in

1 : 2 : 4—1in concrete, worked around reinforcement, between formwork in the following (at various levels):—Per cubic yard

6d per in

Foundations and surface beds 89/9

in depth

Walls, 12in thick or more 96/-

11d do. 2/- do.

Cutting do., and afterwards do. .. 11d do. 2/- do.

Cut mortices in brickwork or concrete for bolts 1/3 per in

or dowels and run in with cement grout .. in depth, each

Holdfasts of stout iron hoop bent, holed and screwed to frame and built in 1/7 each

MEASURED RATES—Continued

BRICKWORK—Continued

FACING—

Extra only over common brickwork (118/- per 1,000) for facing with superior bricks in Flemish bond and pointing as the work proceeds.

Rustic Flettons (150/-)	4/2 per yd super
White (220/-)	9/9 do.
First Stocks (355/-)	19/8 do.
Reds (350/-)	19/3 do.
Blue pressed (604/-)	38/3 do.

If built in English bond, Add 12½% to above.
If do., half-brick stretcher bond, Less 25% off above.

COPING—

All labour and material in forming brick-on-edge coping with two course of roofing tiles under and cement weather fillets on both sides, built in cement and pointed as the work proceeds.

Per ft run	9in thick	14in thick
In picked Flettons	6/3	8/5
In first quality Stocks	8/-	12/-
In red facings	7/5	11/11

Plumbing angles	2d per ft run
Fair cutting	1/- do.
Fair rake cutting	1/7 do.
Fair circular cutting	1/7 do.
Fair squat or birdsmouth	1/11 do.

ARCHES

Extra over Fletton brickwork for forming window head with red facing bricks set on end and with ft run
4½in soffits and pointing 3/9
Do. for rubbed and gauged flat arch in red rubbers ft super
set in putty with fine joints 19/-

PARTITIONS

(75 yards)	2in	2½in	3in
Concrete slab partitions in cement mortar	11/5	13/8	14/8
Hollow clay do.	13/5	15/6	18/-

Cutting and bonding at angles, intersecting sections and ends 5d ft run

PAVING	1in	1½in	1½in
Grano trowelled gauge 5 : 2	8/6	9/6	10/8 yd super
1in by 5in skirting, square top and cove bottom			2/10 ft run
1in by 6in red quarry tile paving			32/- yd super
1in by 6in do. skirting			1/11 ft run
Jointless flooring, ½in thick			20/- yd super

ASPHALT (normal conditions for 200 yds super and upwards)
In pitch mastic floor in B.S.
one coat on felt underlay
on prepared concrete base 1450/48 1375/47

Per yd super	Brown		Red	
	13/6	15/-	16/6	Natural
Unit	B.S. 988	Rock		B.S.S. 1162/44
1in in two thicknesses on felt underlay on prepared concrete base	yd super	14/3	18/6	
Do. in narrow widths	ft super	2/-	2/7	
1in skirting 6in high, angle fillet at bottom splayed and turned in at top	ft run	2/4	2/7	
External angles	each	6d	6d	
Internal do.	each	10d	10d	
Tanking or Damp Course	B.S. 1097/43	B.S. 1418/47		
Vertical in two thicknesses	yd super	19/6	24/6	
1in horizontal do.	yd super	13/-	18/9	
Vertical in three thicknesses	yd super	26/6	33/-	
1½in horizontal do.	yd super	19/-	27/6	
Labour rounded external angle	per ft run	6d	6d	
Do. internal angle fillet	per ft run	10d	11d	
Do. double do.	per ft run	1/8	1/8	
Collars to small pipes	each	3/6	4/-	
Do. to large pipes	each	6/9	7/6	

DRAINAGE

Per lineal yd	1ft in depth	5/10
Excavate trench, and plank and strut to sides, consolidate bottom to fall, return, fill and ram earth after drain is laid and load and remove surplus.	2 do.	9/11
In ordinary ground—moderately firm. (By hand)	3 do.	22/9
	4 do.	29/7
	5 do.	36/6
	6 do.	54/11
	7 do.	67/6
	8 do.	80/-
	9 do.	92/6
	10 do.	104/11
	11 do.	128/1
	12 do.	144/11

Portland cement (1 : 6)	Per yd run	9in
concrete bed under drain 4in	6in	9in
pipes and benching up on 18in wide	20in wide	23in wide
both sides—6in thick	8/6	10/-

SALT GLAZED SANITARY DRAIN PIPES

and lay and joint with Yarn and Cement Mortar in trench.

Quality	Quantity	4in	6in	9in
"Best"	2ton or more	3/1	4/7	7/7
	50 pieces and over	3/5	5/3	8/6
	under 50 pieces	3/6	5/4	8/10
"Best Tested"	2ton or more	3/9	5/10	9/2
	50 pieces and over	4/2	6/3	10/2
	under 50 pieces	4/3	6/5	10/10
"British Standard"	2ton or more	3/3	4/10	8/-
	50 pieces and over	3/8	5/6	9/-
	under 50 pieces	3/9	5/7	9/4
"British Standard Tested"	2ton or more	3/10	5/9	9/7
	50 pieces and over	4/5	6/8	11/-
	under 50 pieces	4/6	6/9	11/5
Extra for bends "Best"—Contained in 2ton lots		4/2	6/3	16/6
Extra for junction "Best"— —4in on 4in—6in on 6in on 9in	do.	6/6	9/9	27/-

IRON DRAIN PIPES—

Heavy cast iron socketed and laying and joining in molten lead—

Per ft run	4in	6in
In main runs	14/5	20/2
In branches	16/6	23/4
Extra over last for bends and extra joint	30/2	66/1
Do. on do. for junctions and extra joint	45/4	86/-
Cast-iron gulley with 10½in inlet and 4in outlet, composed of hooper and trap, and 9in extension piece and 10½in grating, and jointing all together, and jointing to drain and surrounding in concrete		
Do. rain water, shoe with vertical inlet and inspection cover, and joint up and embed	183/-	—
	85/9	143/6

MANHOLE SUNDRIES—

4in	6in
Salt glazed straight half-round main channels	each 6/-
Do. curved	do. 14/-
Do. three-quarter section splayed channel bends (Barrows or similar)	do. 18/-
Heavy manhole steps galvanized	do. 9/9
Fix only manhole covers	do. 11/6
4in Mica flap, brass faced, f.a.i. valves and fix with molten lead joint	do. 41/-

ROOFER

CORRUGATED ASBESTOS SHEETS

P.C. 8/3½ per super yd including side and end laps and fixing to wood	162/6 per square
Eaves filler pieces	2/6 ft run
Adjustable ridge	4/9 do.
Barge boards	3/4 do.

Plain roofing tiles, machine made, sand faced, 4in gauge nailed every 4th course with 1½in galvanized nails, to battens (measured separately)	263/- per square
Extra over last for top edge or abutment cutting	1/4 ft run
Do. for double course at eaves	2/5 do.
Do. for verges, undercloak, bed and point	3/9 do.
Do. Valley tiles including cutting and waste on both sides	11/3 do.
Do. Bonnet hips and do. bed and point	11/9 do.
Half-round ridge and bed and point	3/6 do.
Fixing soakers	1/8 dozen

Bituminous felt roofing in two layers, laid breaking joint and bedded with hot mastic and finished with fine dry grit

Do. but in one layer only	12/6 yd 9/- super
	Per square

WELSH SLATING	16" + 10" 18" + 10" 20" + 10"
3in lap, 2 zinc nails to each slate	341/- 356/- 414/-

Additional labours	Per ft linear
At tops, verges and abutments—straight	1/9 1/10 2/2
Do. —raking	2/7 2/9 3/1
At hips and valleys (each side)	2/7 2/9 3/1
At eaves, double course	3/6 3/8 4/2
Do. to falls	5/3 5/4 6/3

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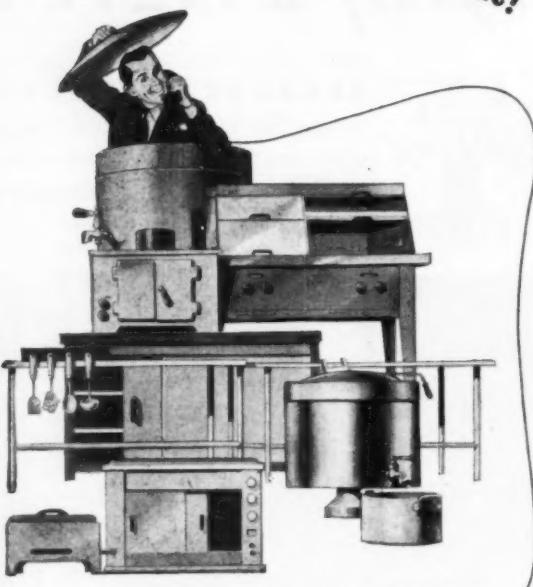
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MEASURED RATES—continued

FLOORS AND FLATS

Hollow tile <i>in situ</i> or pre-cast units hoisted, bedded and fixed—			Per ft super—	
Superimposed load	in lb per ft super	12ft		
50	..	44/9	16ft	2/5
100	..	47/-	52/9	2/9
150	..	53/9	59/-	3/1
Per yd super	100	..	67/3	3/8

20lb has been allowed to cover dead load in surface, finish.
Fair edge to slabs 9d per ft run
Splay cutting and waste 1/9 do.

CARPENTER AND JOINER

SOFTWOOD CARCASSING—

	per ft cube	Labour, materials, waste nails, Plates	Joists	Rafters	Trusses
hoisting and fixing	19/2	20/8	22/4	25/6	
FLOORING—	Per square—				
Rough boarding	144/-	144/-	171/-	203/-	
Softwood batten flooring, straight joints, splayed headings ..	146/6	146/6	167/6	206/-	
Do. grooved and tongued ..	167/6	167/6	189/6	244/-	
SKIRTING—	Per ft superficial—				
Wrot softwood moulded skirting with grounds and backings plugged ..	4/-	4/-	4/8	5/3	
Mitres to do. ..	3d	3d	per sectional in.		
Fitted ends ..	2d	2d	do.		

SASHES, fanlights, casements, borrowed lights, etc.—

Without bars	With bars (2ft sup. in each square)	Per ft super—
2in softwood rebated, moulded and fixed ..	3/6	6/5
Add if fitted with beads ..	6d	1/6
Add if hanging on butts ..	3/-	each

WINDOWS, hung on lines—

Softwood cased frames, 1in inner and outer linings, 1½in pulley stiles, 2in sashes, oak sill ..	Overall size of frames—
Per ft super ..	6ft 21ft 32ft 44ft
Windows as described ..	21/6 12/- 9/- 7/-
Add if sashes in squares, about 2ft super in each ..	— 1/8 2/2 2/2
Extra for hanging sashes with lines, weights and axle pulleys ..	38/- 66/- 77/- 88/-

FINISHINGS TO OPENINGS—

Softwood linings, tongued at angles and tongued to frame including grounds and backings ..	Per ft super—
4/8	2in 5/3 5/10 6/4
8d	8d 8d 8d 8d
Add if crosstongued ..	
Softwood wrot rounded on front edge and with tongue at back window board including groove in sill and bearers ..	3/10 4/4 5/- 5/6
Add for ends to last notched, returned and rounded ..	1/1 1/2 1/3 1/4

Per ft run—	Sectional area in in—
Softwood wrot and fixed in bearers, backings, grounds, fillets, and similar ..	1 2 3 4 5 6
4½d	7d 9½d 1½d 1/3 1/5
2d	2d 2½d 2½d 3d 3d
6d	6d 6d 6d 6d 6d
" if plugged to brickwork ..	
" if framed as in legs and bearers ..	3d 3d 4d 4d 6d
" if rebated or grooved or beaded ..	2d 2d 2d 2d 2d
" if chamfered or rounded edges ..	3d
" if moulded in architraves, capping, etc. ..	6d

DOOR FRAMES—	Per sectional in—	Per ft run
Per sectional in—	6in 8in 10in 12in 13½in	2/3 2/8 3/2 3/6 3/10

DOORS—Per ft super	Number of panels—
2in Softwood square 1	2 3 4 5 6
framed and flat panels, both sides, on butts ..	6/10 7/5 8/- 8/4 8/10
1½in do. ..	6/2 6/7 7/2 7/7 8/1
Add for each side moulded ..	3d 4d 5d 6d 7d 8d
Add B.S. flush panelled 1/6	1/6 1/6 1/7 1/8 1/8

Per ft super—	1in	1in	1½in	1½in
In shelves, table tops, wrot and fixed	2/5	2/9	3/4	3/9
Do. in divisions and ends framed ..	2/9	3/1	3/8	4/3
Add if crosstongued ..	6d	6d	6d	6d
Add if buttoned ..	6d	6d	6d	6d

SUNDRIES—Per ft run—	In short lengths	In long lengths	Add for cups and screws
Glazing, beads mitred around and fixed with beads ..	6d	4d	2d
Rounded heel or hollow ..	4d	4d	
Tongued and grooved angle ..	6d	6d	
Glue blocking ..	6d	6d	
Mitres ..	3d	per sectional in	
Fitted ends ..	2d	do.	

STAIRCASE—	Per ft super
1½in Softwood treads with moulded nosings in risers tongued both edges and glued, blocked and bracketed on and including two fir framed carriages ..	6/6
Do. but in winders ..	8/-
1½in crosstongued landing on framed carriages ..	6/3
2in moulded string ..	5/6
2in do. ramped ..	14/-
Ends framed to newel ..	10/- each
Tongued heading joints ..	6/- do.
Ends of treads and risers housed to string ..	3/6 do.
Extra for curtail ends to steps, glued up and veneered riser and solid blocking ..	100/- do.
Balusters about 2ft 9in long, square and framed each end ..	1in 3/1 1½in 3/6
3½in by 3½in square newel, framed ..	4/- per ft run
African mahogany moulded 3in by 2in hand-rail. (Joints below) ..	9/3
Do. ramped 18in girth (do.) ..	54/- each
Do. wreathed do. (do.) ..	160/- do.
Joint or framed ends ..	12/- do.

FIXING ONLY IRONMONGERY	To deal	To hardboard
Barrel bolts ..	1/10	2/9 each
Flush bolts ..	5/6	4/10 do.
Sash fasteners ..	2/6	3/- do.
Rim locks and furniture ..	4/6	6/- do.
Mortice locks and do. ..	7/6	17/9 do.
Cupboard locks ..	2/9	3/5 do.
Casement fasteners ..	2/3	2/9 do.
Do. stays ..	2/3	2/9 do.
Grip handles ..	2/7	3/5 do.
Spring catches ..	2/3	2/9 do.
Cabin hooks ..	1/10	2/5 do.
Floor springs including oil ..	49/-	63/- do.
Overhead springs ..	14/7	20/- do.
Springhinges ..	14/-	19/- do.

SMITH AND FOUNDER	
Basis framed steel joists and hoist and fix	81/6 per cwt
Do. but in compound girders ..	91/6 do.
Do. but in stanchions ..	93/6 do.
Trusses ..	130/6 do.
Additional cost per cwt over basic sections for following R.S.J.s	
9in by 7in, 10in by 8in, 12in by 8in, 14in by 8in, 16in by 8in, 18in by 6in, 18in by 7in, 20in by 6½in, 20in by 7½in	8d per cwt
22in by 7in, 1½cwt 4in by 3in ..	1/10 do.
5in by 3in, 5in by 2½in ..	2/2½ do.
6in by 3in, 24in by 7½in ..	2/6 do.
3in by 3in, 2/9 cwt 4½in by 1½in ..	4/- do.
3in by 1½in ..	4/4 do.
Cleats, brackets, packing pieces, etc., in connections, including rivets and bolts ..	174/- do.
Forged straps ..	132/- do.
Wrot iron balustrade ..	175/- do.

RAINWATER GOODS—	Per ft lineal
Round cast-iron pipe with socketed joints caulked with red lead and tow and fixing with pipe nails and gas barrel distance pieces to plugs in brickwork ..	2in 3in 4in 4/5 4/10 6/2
Extra for shoes ..	5/7 7/2 10/3
Do. junctions ..	8/5 10/9 15/7
Do. bends ..	6/7 8/6 10/10
RAINWATER GUTTERS	Per ft. run—
Half round CI gutters jointed in red lead and bolted and fixed on iron brackets ..	4in 5in 6in 3/11 4/8 5/9
Ogee do. All as last ..	4/4 5/- 6/3
Extra for stop ends ..	3/2 3/10 4/-
Do. angles or outlets ..	5/6 7/- 8/4

MEASURED RATES—continued

PLUMBER

EXTERNAL—		Soakers	Flats	Flashings
4lb Milled Sheet lead per cwt		147/-	188/-	200/-
LEAD PIPES: running joints, etc.				
Per ft run	1/2in	2in	1in	1½in
Main	4/5	6/0	8/3	10/5
Service	{ Fixed 3/11	5/3	7/—	8/7
Waste	hooks 2/9	3/10	5/—	7/4
Bends	each —	—	1/9	3/—
Solder joints	do. 9/8	11/8	13/5	13/8
Union and joints	do. 13/10	16/9	20/6	26/2
Stop valve and do.	27/10	37/10	52/—	82/6
Bib valve and do.	do. 19/4	26/7	—	—
Ball valve and do.	do. 26/4	36/—	51/9	79/—
Sleeve and do.	do. —	—	—	21/3
				29/3

COPPER TUBES

	1/2in	2in	1in	1½in	1¾in	2in
Tubes per ft run	2/9	3/4	4/5	5/3	6/1	8/9
Couplings: straight each	3/7	4/4	6/7	8/6	11/—	15/—
Do. Elbows each	5/8	6/8	8/10	11/3	16/9	32/4
Do. Tees do.	8/3	9/7	13/10	19/—	25/6	32/—
Do. Cisterns do.	4/8	6/3	8/4	10/6	14/4	18/11
Stop cocks do.	24/4	35/4	63/—	104/6	159/—	240/—

	1/2in	2in	1in	1½in	1¾in	2in
fixed with pipe brackets						
Tubes, per ft run	2/7	3/—	3/7	4/6	5/—	6/11
Bends and fix, each	5/—	5/11	8/—	10/6	12/2	18/6
Tees and do.	5/5	6/9	8/—	10/2	12/5	18/2
Fire bends	2/2	2/9	3/1	3/4	4/5	8/—

Coated iron (M) weight L.C.C. soil and waste fixed with nails and distance pieces and molten lead joints	2in	4in
	5/9	8/4 ft run
Extra only for bends and joint	14/9	23/8 each
Do. junctions and joints	16/4	29/9 do.
Do. cleaning doors	16/—	17/6 do.
Domical wire guards	2/6	2/9 do.

PLASTERER—

Lime and hair	1/2in	Render and set	yd super
Do.	1/2in	Do. float and set	7/3
Sirapite	1/2in	Skimming coat	10/6
Do.	1/2in	Render and set	4/—
Do.	1/2in	Render, float and set	8/2
Portland	1/2in	Backing coat	10/2
Do.	1/2in	Plain face	4/10
Do.	1/2in	Floor screed	8/3
Keenes	1/2in	Skimming coat	5/—
Dubbing	1/2in	Thick or less	3/—
Metal Lathing	1/2in	mesh by 24 Gauge	7/—
6in by 6in by 1/2in Earthenware Plain Glazed Tiles, in fair quantity white, and setting (on prepared screed)			45/—
Rounded edge. Extra over last			6d per ft run
Angles in do.			6d each
Cutting and fitting. Around pipes or clips			1/6 do.
Narrow widths. 3in to 6in wide. Add 75 per cent to plain surface.			
Do. 6in to 12in do. Add 40 per cent to plain surface.			
Sundry labours per ft linear:			
Quirk 3d. Arris 4d. Fair edge 3d. Rounded edge 5d.			
Flush bead 1/9.			
Mouldings—6d per girth.			
Jointing new plastering to old 4d.			

POLISHING

NEW WORK—		Ft super	6" Girth
Staining, bodying-in and French Polish		3/—	2/—
Staining and wax polishing on hardwood		1/6	1/—
OLD WORK—			
Cleaning down old work and repolish		1/4	—
Stripping, preparing and repolishing		3/4	2/3

INTERNAL PAINTING

With white lead base in common colours, with brushes.

Knot stop	Prime and	Prime and	Add for each extra coat
prime	and paint once	paint twice	2/4 yd super

ON WOOD—General surfaces

Running lengths not exceeding 3in wide	4½d	8½d	1/-	3½d	yd run
Do. 3in to 6in wide	5½d	11d	1/4	4½d	do.
Do. 6in to 9in wide	9d	1/6	2/1	7½d	do.
Do. 9in to 12in wide	11d	1/11	2/7	9½d	do.
Sash square each side	5/5	10/3	14/11	4/4	per do.
Do. in large squares	8/3	15/—	21/—	6/7	do.
Opening edges	7d	1/2	1/9	7d	each
Casement frames each side	6d	1/—	1/4	5d	yd run
Mullions or transoms	8d	1/5	2/—	7d	do.

ON PLASTER—

Paint on surfaces

Do. on mouldings

Do. on enrichment

ON STEEL

Paint on structural steel

Do. on roof trusses

Do. on metal windows measured over all on both sides, divided into squares

Do. divided into large squares

Do. divided into extra large squares

Do. on opening edges

Do. on rain water pipe

Do. on do. gutter

Do. on small pipe

GLAZING (to New Work)

Polished Plate Glass ordinary substance (about 1/2in), glazing quality, in the following sizes, glazed complete—Per ft super in plates not exceeding 2ft super in each

Do. 5ft do.

Do. (unless extra sizes) 45ft do.

Do. (unless extra sizes) 100ft do.

Add extra price for glazing with screw beads or clips 5d per ft super.

Do. if glazing bedded in washleather or velvet 9d per ft run.

SHEET GLASS, glazed, complete, per ft super, in new work: Ordinary quality clear, glazed to wood with putty:—

24oz as described

26oz do.

32oz do.

figured rolled, glazed to wood with putty Group 1 Per ft super

Do. in standard tints do.

No. 4 Fluted, glazed do. do.

In Reeded (narrow, broad, etc.) do.

Reedlyte do.

Spotlyte do.

1/2in Rough cast do.

1/2in do. wired do.

1/2in Georgian Rough Cast do.

Add for glazing all as before but to steel to similar work as above, 1½d per superficial ft.

PAINTER AND DECORATOR

DISTEMPERING—In common colours, put on with brushes—

ON PREPARED SURFACE

1 coat 2 coats Add if required

per yd super— (finish) (under-coat and finish) Sealing coat Stippling

Ordinary distemper on flat surface of plaster 10d 1/6 6d 3d

Washable do. on do. of plaster .. 1/— 1/10 6d 3d

Add if in margins, narrow widths or panels 30% 30% 20% 50%

Add if on mouldings 50% 50% 45% —

Add if on enrichments 160% 160% 115% —

PAPERHANGING

Hanging only— Per Piece—Lining Pattern

On walls 7/6 9/—

On stairs 10/3 12/—

On ceilings 9/— 10/6

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Rock asphalte has been imported by us from _____ (an) asphalte mine(s) and
complies with British Standards.

ROCK MASTIC ASPHALTE has been manufactured from this (these) rock(s) in a Works inspected by the British Standards Institution to ensure that the production of mastic asphalte complies with British Standards, and all blocks of this mastic asphalte will accordingly be marked with the following:

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For and on behalf of _____

Date _____

*Attention is invited to particulars of apparatus covering copyright given overleaf.

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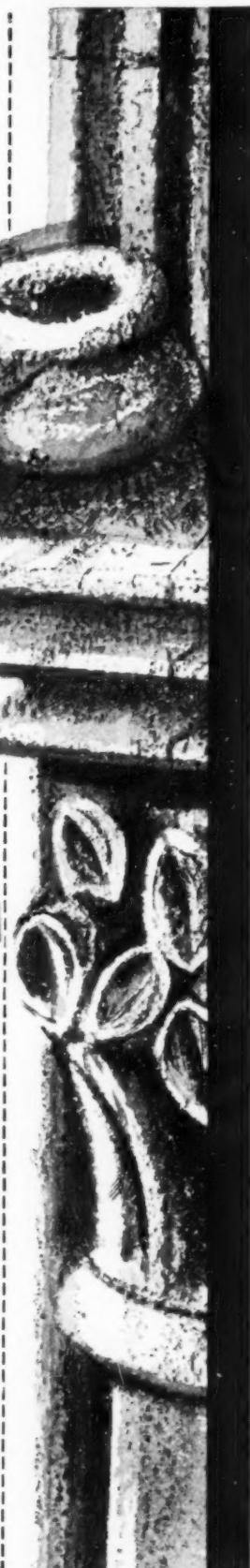
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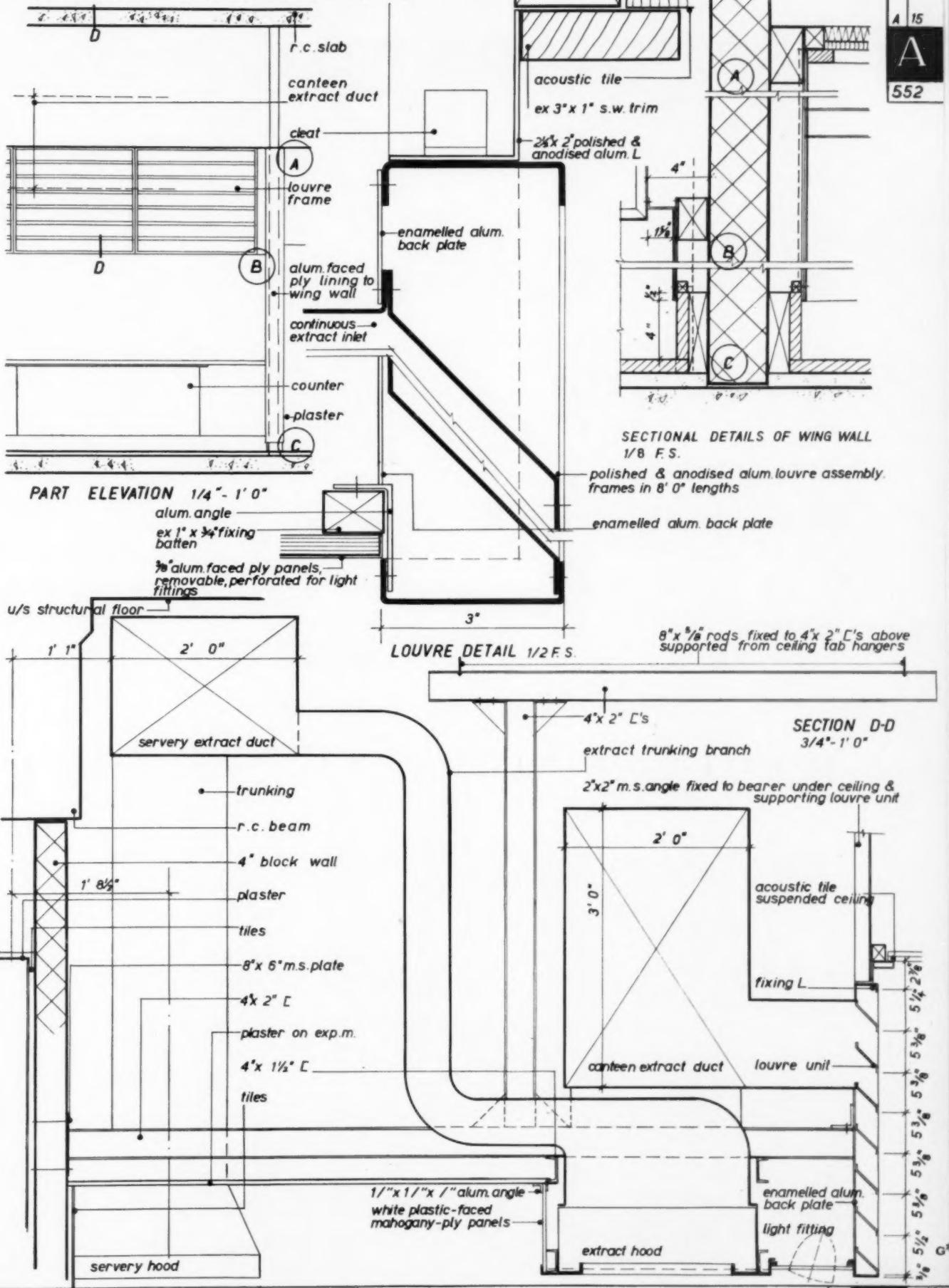
MARLEY vinyl rainwater goods

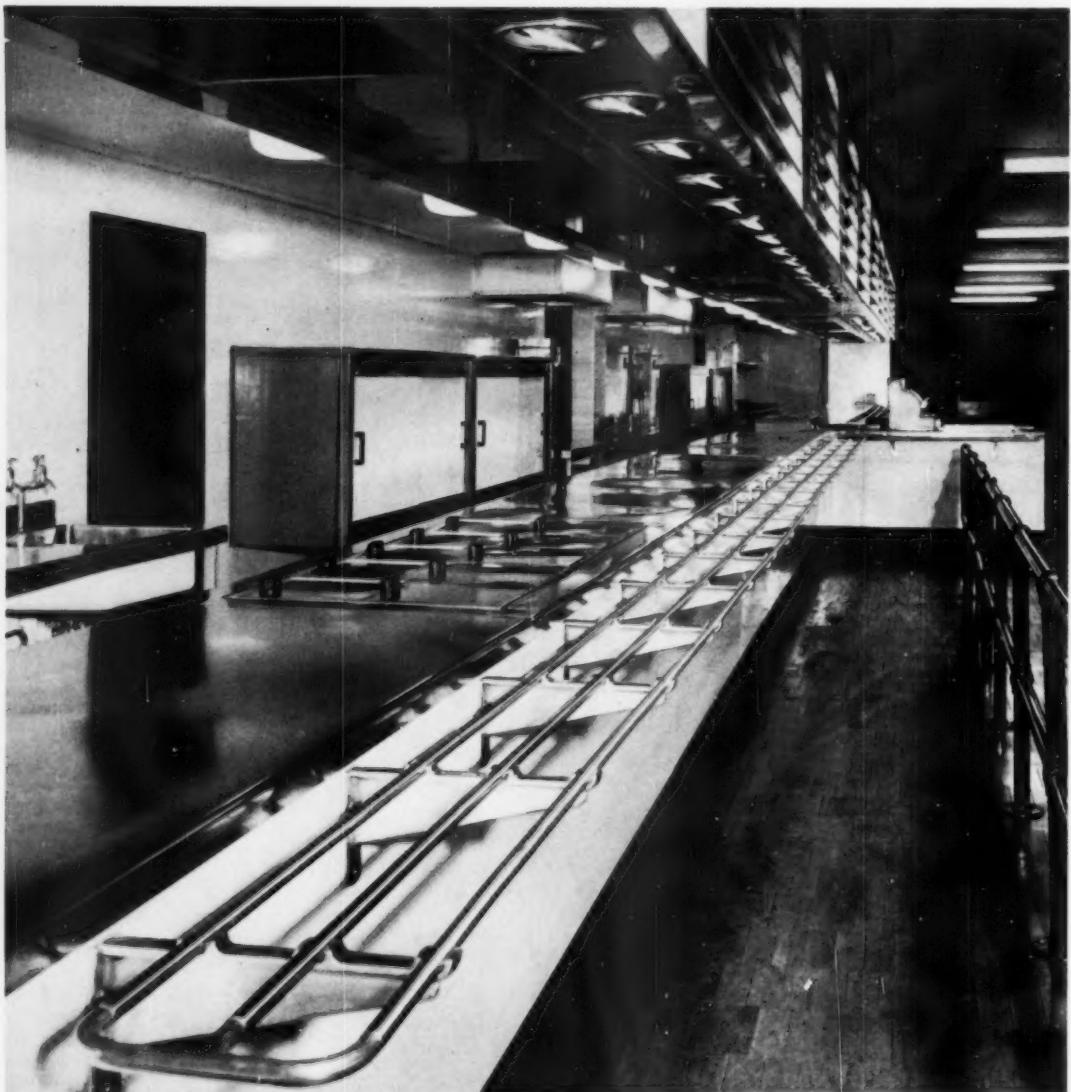
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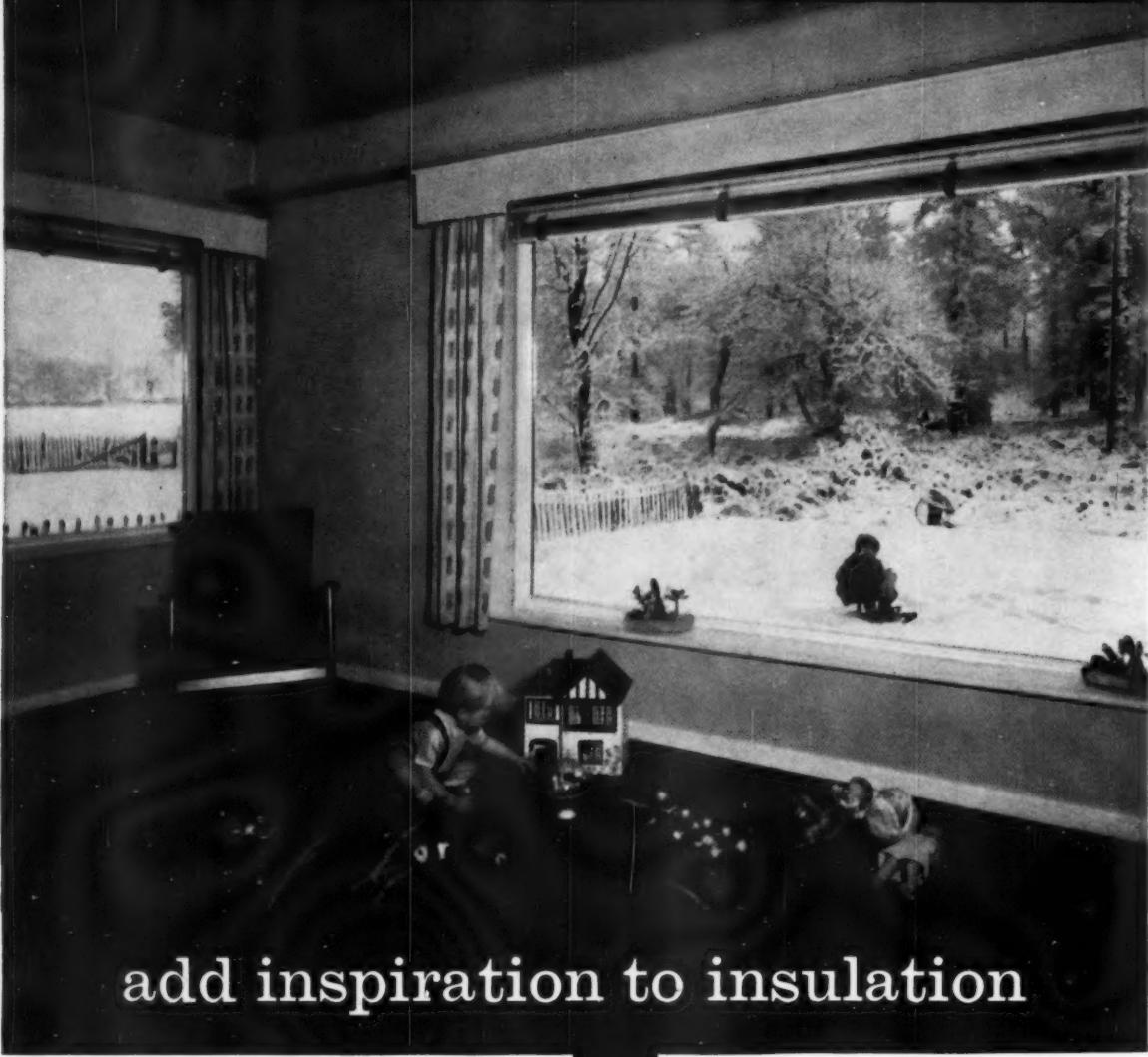
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Notes below give basic data of contracts open under locality and authority which are in a bold type. References indicate: (a) type of work (b) address for application. Where no town is stated in the

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address it is the same as the locality given in the heading (c) deposit (d) last date of application (e) last date and time for submission of tenders. Full details of contracts marked * are given in the advertisement section.

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ABINGDON B.C. (a) Erection of a housing estate of 44 houses, extending the Gainsborough Green estate. (b) Alan Roscoe-Hudson, Market Place, Faringdon, Berks. (c) 2gn. (e) November 16.

BRIDLINGTON B.C. (a) Erection of 20 old persons' bungalows in separate contracts of two, four, six or eight bungalows or one contract of 20. (b) Borough Engineer and Surveyor, Town Hall. (c) 2gn. (e) November 6.

BUCKS C.C. (a) Erection of a branch library at Amersham. (b) County Architect, County Offices, Aylesbury. (c) 3gn. (e) November 9.

CHATHAM. (a) Erection of an old people's home (24 flats) at Palmerston Road. (b) Borough Surveyor, Town Hall. (c) 2gn. (e) November 30.

CUCKFIELD R.C. (a) Erection of a block of four traditional dwellings at Anstye. (b) Engineer and Surveyor, Rural Council Offices, Bolte Road, Haywards Heath, Sussex. (c) 2gn. (e) November 9.

DONCASTER B.C. (a) Erection of two blocks of four-storey flats, totalling 16 flats. (b) Borough Architect, 15 South Parade. (c) 5gn. (e) November 16.

DOWN C.C. (a) Erection of an old people's home at Kilkeel Road, Newcastle. (b) County Planning Officer, English Street, Downpatrick. (c) 5gn. (e) November 4.

DURHAM C.C. (a) Erection on a vacant site at 54-55 Claypath of a three-storey block of three flats. (b) City Engineer, Town Hall. (c) 2gn. (e) November 12.

EALING B.C. (a) Erection of 12 flats at Windmill Road-Darwin Road, Ealing, W.5. (b) Borough Surveyor, Town Hall, W.5. (c) £5. (e) November 19.

EAST RETFORD B.C. (a) Erection of seven pairs of single-storey dwellings at Windsor Road, including paths, drainage, etc., but not roadworks or sewers. (b) Town Clerk, Municipal Offices. (c) 2gn. (d) Today, October 28.

EAST RIDING OF YORKSHIRE C.C. (a) Additions to Woodmansey C.E. School and house. (b) County Architect, County Hall, Beverley. (c) 2gn. (e) December 1.

EAST SUSSEX C.C. (a) Erection of Portslade Special School. (b) County Architect, County Hall, Lewes. (d) November 4. (e) November 19.

EAST SUSSEX C.C. (a) Erection of four classrooms and cloakroom accommodation at Bexhill St. Mark's C.E. School. (b) County Architect, County Hall, Lewes. (d) October 30. (e) November 14.



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EAST SUSSEX C.C. (a) Erection of four classrooms, cloakrooms and alterations at Hellingby C.E. School. (b) County Architect, County Hall, Lewes. (d) November 2. (e) November 19.

EAST SUSSEX C.C. (a) Erection of a two-storey wing consisting of a laboratory, art room and cloakroom at Bexhill County Grammar School. (b) County Architect, County Hall, Lewes. (d) November 2. (e) November 17.

EIRE, LOUTH C.C. (a) The erection of a swimming pool, dressing rooms, pump house, spectator terrace, entrance building, and boundary wall at Blackrock, Dundalk, Co. Louth, for Louth County Council. (b) Thomas P. McGahon, 9-18 Exchange Buildings, Dundalk, Co. Louth. (a) Supply and installation of the pumping, filtration and chlorination plant rated at 1,000 gallons per minute, including electric motors, ancillary equipment and pipework for Louth County Council. (b) Thomas P. McGahon, Architect, 9-11 Exchange Buildings, Dundalk, Co. Louth. (c) 2gn. (e) November 30.

EIRE, WATERFORD. (a) Alterations and additions at St. Joseph's Convent National Schools, Parnell Street, Waterford, for the Sisters of Charity. (b) Henry D. W. Boyd, 28 Upper Baggot Street, Dublin. (c) £5. (e) November 14.

LUTON B.C. (a) Erection of 40 houses at Lewsey Farm estate. (b) Borough Architect, Town Hall. (d) October 30. (e) November 20.

MANCHESTER C.C. (a) Alterations and extensions to Burnage Junior and Infants' School. (b) City Architect, P.O. Box 488, Town Hall. (e) November 4.

MIDDLEBROUGH B.C. (a) Ten bungalows, 32 flatlets and four houses at Albert Cock's Home, Thorntree. (b) Borough Engineer, Town Hall. (c) 2gn. (e) November 9.

NORTHAMPTON B.C. (a) Erection of four additional classrooms at Cherry Orchard School. (b) Borough Architect, Guildhall. (c) 2gn. (e) December 2.

NORTH RIDING OF YORKSHIRE C.C. (a) Erection of Saltburn County Modern School. (b) F. Barraclough, County Hall, Northallerton. (e) November 13.

PORT TALBOT B.C. (a) Erection of a public convenience at the Promenade, Sandfields, Aberavon. (b) Borough Engineer, Municipal Buildings. (c) 2gn. (e) November 10.

SALFORD C.C. (a) New kitchen extension at Sorrel Bank Dining Centre, Langworthy Road. (b) City Engineer and Surveyor, Town Hall. (c) 2gn. (e) November 10.

ULSTER — MINISTRY OF COMMERCE. (a) Construction of factory at Lake Street, Lurgan, Co. Cavanagh, for Ulster Ministry of Commerce. Room 28, Chichester House, Belfast. (c) £3. (e) November 10.

WALLINGFORD R.C. (a) Two three-storey extensions, each comprising six all-electric flats at the ends of the existing three-storey block of shops and flats in Abbott Road, Didcot. (b) Leechor & Stamford, 14 Park End Street, Oxford. (c) 2gn. (e) November 16.

WANSTEAD AND WOODFORD B.C. (a) Building contractors desirous of being placed on the Council's list for external painting and works of maintenance and repair of Council property should apply to the Borough Engineer, Municipal Offices, E.18, giving details of average number of men employed in various trades and names, etc., of at least three authorities from whom references can be obtained. (d) October 30.

WING R.C. (a) Erection of four type "B6" bungalows and four type "R" houses, with site and drainage works at Paper Mill Lane, Stoke Hammond. (b) Architect, 15 Bridge Street, Leighton Buzzard. (c) 2gn. (e) November 2.

WORSLEY U.C. (a) Erection of 69 dwellings at Neighbourhood unit No. 2 at Little Hulton for the Council's own requirements. Erection of 223 dwellings at Neighbourhood unit No. 2, Little Hulton, for overspill requirements. The contract may be extended by a further 70 dwellings. (b) Engineer and Surveyor, Town Hall, Walkden.

YORK C.C. (a) Erection of 44 dwellings at Acomb Road. (b) City Architect, 8 St. Leonard's Place, York. (c) £3. (e) November 7.

PLACED

Notes on contracts placed state locality and authority in bold type with (1) type of work (2) site, (3) name of contractor and address, (4) amount of tender or estimate. † denotes that work may not start pending final acceptance, or obtaining of licence, or modification of tenders, etc.

BIRMINGHAM C.C. (1) Erection of a home for the aged. (2) Park Hill, Handsworth. (3) Hunt & Pearcey, 13 Ulverley Green Road, Solihull. (4)

£90,950. (1) Erection of technical college. (2) South Birmingham. (3) W. J. Whittall & Son Ltd., 132 Lancaster Street, Birmingham. (4) £247,770.

BIRMINGHAM C.C. (1) Erection of 108 dwellings. (2) Long Nook Road. (3) R. M. Douglas (Contractors) Ltd., George Road, Erdington, Birmingham. (4) £234,761.

BOURNEMOUTH B.C. (1) Erection of a social hall and library. (2) Kincon Estate. (3) E. W. Kingsbury & Sons Ltd., Pottery Road, Parkstone, Bournemouth. (4) £20,005.

BRIERLEY HILL. (1) Reconstruction of portion of superstructure of East Street overbridge over Down Tilbury and Westbound (L.T.E.) lines. (2) Between Barking and Dagenham Dock. (3) Messrs. R. G. Horton (Engineers) Ltd., Delph Road, Brierley Hill, Staffordshire.

CHELTENHAM. (1) Erection of assembly hall and gymnasium at the Convent of the Sacred Heart, Charlton Kings. (3) Ford & Weston Ltd., 34 Imperial Square, Cheltenham. (4) £53,593.

COVENTRY C.C. (1) Primary school. (2) Bell Green. (3) Thomas Bates & Son Ltd., Coventry. (4) £48,570.

DONCASTER B.C. (1) Erection of the Museum and Art Gallery. (2) Chequer Road. (3) P. P. Taylor (Doncaster) Ltd., 6 South Parade, Doncaster. (4) £226,889.

DUNDEE B.C. (1) 204 houses. (2) Craigie, Second Development. (3) Charles Gray (Builders) Ltd., 4 Francis Street, Dundee. (4) £246,093.

ESTON (YORKS) U.C. (1) Erection of Council Offices. (2) Fabian Road, Teesside. (3) Charles Tennet (Contractors) Ltd., Church Road, Stockton-on-Tees. (4) £110,590.

HULL C.C. (1) Erection of a crematorium. (3) Quibell & Son Ltd., 354 Beverley Road, Hull. (4) £67,051.

HUNTS C.C. (1) First instalment of secondary school. (2) Orton. (3) A. W. Ambery Ltd., Geddington, Kettering. (4) £155,900.

INVERGORDON, ROSS-SHIRE. (1) Erection of a grain distillery for William Grigor & Son Ltd., Inverness. (3) Duncan Logan Ltd., Muir of Ord, Ross-shire. (4) £400,000.

LIVERPOOL. (1) Erection of a Department of Mathematics and Oceanography and Veterinary Department. (2) Liver-

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pool University. (3) Gilbert-Ash Ltd., 2 Stanhope Gate, London, W.1.

LONDON, W. (1) Erection of a lecture theatre for the Royal Aeronautical Society. (2) Hyde Park Corner, W.1. (3) Holland and Hannen & Cubitts (Great Britain) Ltd., 1 Queen Anne's Gate, London, S.W.1. (4) £80,000.

MANCHESTER. (1) Fourth phase of development at the Granada TV Centre. (3) J. Gerrard & Sons Ltd., Swinton, near Manchester. (4) £460,000.

MANCHESTER UNIVERSITY. (1) Department of Engineering. (2) Chorlton-upon-Medlock. (3) John Laing & Son Ltd., Mill Hill, London, N.W.7. (4) £1,200,000.

MIDDLESBROUGH B.C. (1) Second instalment of St. Mary's College. (3) Hudson Bros., Fidler Street, Middlesbrough.

NEWCASTLE-ON-TYNE. (1) Foundations for research block. (2) King's College, for Durham University. (3) John Laing & Son Ltd., Carlisle and London, N.W.7.

NEWPORT (MON) B.C. (1) Erection of maisonettes. (2) Ringland. (3) C. Bryant & Son Ltd., Whitmore Road, Birmingham. (4) £201,767.

NORTHANTS C.C. (1) Erection of a branch library. (2) George Street, Corby. (3) A. W. Ambery Ltd., Queen Street Works, Geddington, Kettering. (4) £49,000.

NORTHWICH C.C. (1) Shops, offices, restaurant and other buildings. (2) Cattle Market, Harford. (3) R. G. Carter Ltd., Drayton, Northwich. (4) £161,072.

OBAN B.C. (1) 146 houses and two shops. (2) Dunollie development. (3) William Loudon & Son, Clelland, Lanarkshire. (4) £230,000.

ST. PANCRAS B.C. (1) Modernisation. (2) Prince of Wales Road Baths. (3) Holloway Bros. (London) Ltd., Millbank, London, S.W.1. (4) £63,751.

SHEFFIELD. (1) Erection of a six-storey reinforced concrete laboratory block and workshops. (2) Safety in Mines Research Establishment, Broad

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Lane. (3) Sir Lindsay Parkinson & Co. Ltd., 6 Lambeth Road, London, S.E.1. (4) £350,000.

SHEFFIELD REGIONAL HOSPITAL BOARD. (1) Upgrading of wards. (2) Pastures Hospital, Mickleover. (3) J. H. Fryer Ltd., Derby. (4) £52,596.

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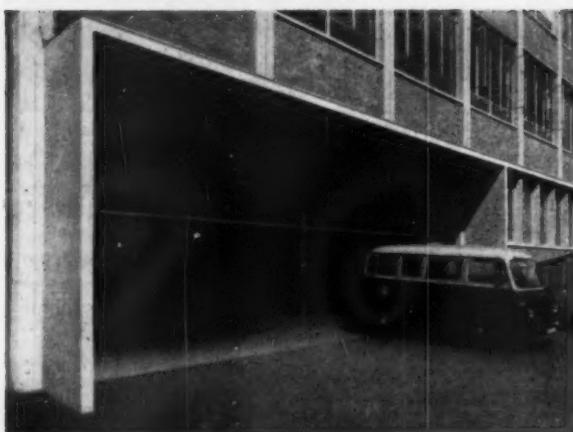
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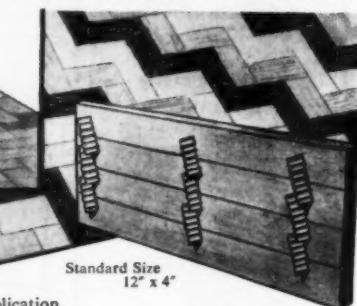
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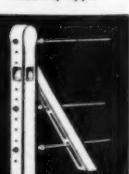
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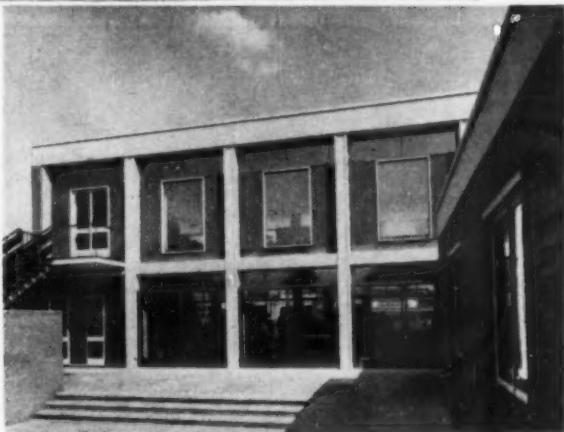
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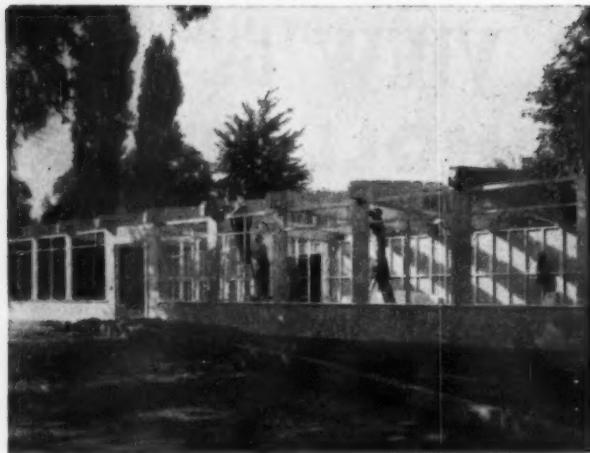
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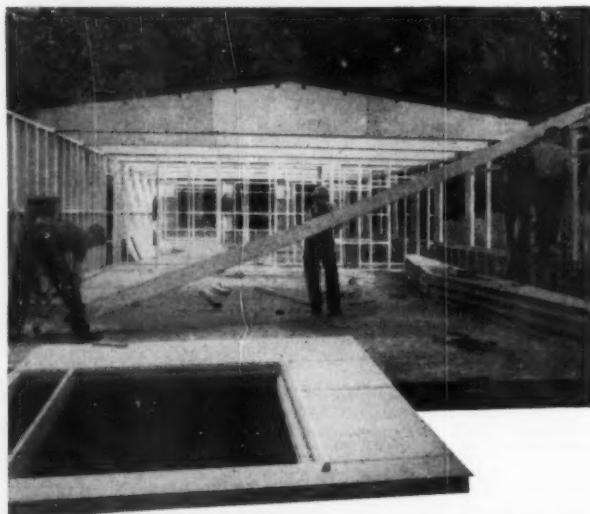
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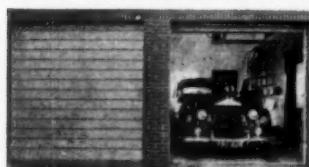
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APPOINTMENTS

Borough of Enfield Borough Engineer's Department APPOINTMENT OF ARCHITECTURAL ASSISTANT

APPLICATIONS are invited for the above appointment at a salary in accordance with Grade APT II of the National Scheme of Conditions of Service (£765 x £30 = £880 per annum) with the additional appropriate London Weighting.

The commencing salary will be fixed at a point within the scale commensurate with qualifications and experience.

Application forms obtainable from Mr. H. D. Peake, M.Sc.(Eng.), M.I.C.E., Borough Engineer and Surveyor, 7 Little Park Gardens, Enfield, Middx., should be returned to the undersigned.

CYRIL E. C. R. PLATTEN,
Town Clerk.

Public Offices,
Gentleman's Row,
Enfield, Middx.
[0777]

British Railways

APPLICATIONS are invited for the post of Assistant Architect in the office of the Architect, Eastern Region British Railways, at King's Cross. The office is engaged on a wide range of interesting buildings, and gives responsibility for design, administration and site supervision to those with ability. Applicants should be qualified with some years' practical experience. Starting salary £943 p.a. Modern working conditions, five-day week and substantial rail travel concessions. Apply in writing to Chief Civil Engineer, British Railways, Eastern Region, King's Cross Station, London, N.1. [5699]

County Borough of East Ham

Borough Engineer's Department
APPLICATIONS are invited for the following temporary appointment:

Senior Assistant Architect, Grade IV (£1,065/£1,220).

London Weighting is paid in addition and a salary in excess of the minimum may be paid according to qualifications and experience. The appointment is for work on a new technical college and is expected to be for a period of not less than three years.

Further details and application forms, returnable by November 6, 1959, from the Town Clerk, Town Hall, East Ham, E.6. [5719]

County Borough of East Ham ARCHITECTURAL ASSISTANTS

Grade I (£610/£765)
LONDON Weighting is paid in addition. Salaries in excess of the minimum may be paid according to qualifications and experience.

Subsistence allowances may be granted over a reasonable period to the persons appointed if unable to obtain suitable housing accommodation, necessitating the maintenance of two homes.

Further details and application forms, returnable by November 6, 1959, from the Town Clerk, Town Hall, East Ham, E.6. [5720]

ARCHITECTURAL ASSISTANTS

REQUIRED in the Regional Architect's office to work on projects connected with the Railway Modernization Plan. Good educational standard and high standard of draughtsmanship required. Salary range £336/£753 p.a., according to age, qualifications and experience. Residential and other travel concessions available. Apply, giving age, experience and qualifications, to H. E. B. Cavanagh, A.R.I.B.A., Architect, C.C.E.O., Paddington, W.2. [5723]

ASSISTANT ARCHITECTS

REQUIRED in the Regional Architect's office to work on projects connected with the Railway Modernization Plan. Must be students of the R.I.B.A., or be qualified to sit for the Special Final Examination of the R.I.B.A. within the next two years. Must produce evidence of high standard of architectural design and knowledge of modern building technique. Salary range £833/£903 p.a. Prospects of further promotion for entrants showing outstanding qualities of leadership and responsibility. Residential and other travel concessions available. Apply giving age, experience and qualifications, to H. E. B. Cavanagh, A.R.I.B.A., Architect, C.C.E.O., Paddington, W.2. [5724]

APPOINTMENTS (cont)

ASSISTANT QUANTITY SURVEYORS

REQUIRED in the Regional Architect's office to work on projects connected with the Railway Modernization Plan. At least twelve months' practical experience in "taking-off" in addition to general quantity surveying experience required. Must have passed Intermediate Examination of the R.I.C.S. and be studying to sit for the Final Examination. Salary range £833/£903 per annum. Residential and other travel concessions available. Apply, giving age, experience and qualification, to H. E. B. Cavanagh, A.R.I.B.A., Chief Civil Engineer's Office (Architect), British Railways, Western Region, 121 Westbourne Terrace, Paddington, W.2. [5725]

APPOINTMENTS (cont)

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City of Liverpool

Architectural and Housing Department

APPLICATIONS are invited for the undermentioned appointments, viz.:

(1) (a) **Chief Assistant**, (b) **Assistants** (Architectural) in the Housing Section, including Multi-Storey Projects. Salaries: (a) £1,265/£1,485 p.a. (Scale B); (b) £1,220/£1,375 p.a. (APT V).

Applicants should be Associates of the R.I.B.A. or hold equivalent qualifications and should indicate in their application the grading of the appointment for which they wish to apply. All give wide opportunities for personal initiative.

(2) **Senior Assistant (Surveying)**. Salary: £785/£1,220 p.a. (APT IV).

Applicants should possess the A.R.I.C.S., A.M.I.Mun.E., or equivalent qualification. The person appointed will be employed in the section dealing with estate layouts, roads and sewers.

Application forms, returnable by November 7, 1959, from the City Architect and Director of Housing, Blackburn Chambers, Dale Street, Liverpool, 2.

The appointments are superannuable and subject to the Standing Orders of the City Council. Canvassing disqualifies.

THOMAS ALKER,
(J.5889) Town Clerk.
[5736]

Middlesex County Council ASSISTANT ARCHITECTS

REQUIRED for interesting work on schools, etc. Must have passed Parts I and 2 of R.I.B.A. Final. Commencing salary: £815/£1,100 p.a. according to experience. Established, pensionable. Five-day week. Prescribed conditions. Application form (stamped addressed foolscap envelope) from the County Architect, Queen Anne's Gate Buildings, Dartmouth Street, S.W.1, returnable by November 16 (quote B.348 ABN). [5742]

Leeds Regional Hospital Board

APPLICATIONS are invited for the appointment of a Senior Assistant Architect. Salary scale: £1,050/£1,245 per annum. Salary scale now being reviewed. Applicants must be Associate Members of the R.I.B.A.

This appointment offers excellent opportunities to Architects to design and construct a wide range of hospital buildings, including nurses' homes, houses, flats, kitchens, laundries and boiler houses. The Service is an expanding one and many new hospital projects are to be built in the immediate future.

Applications, giving age, experience and the names of two referees, to the Secretary, Park Parade, Harrogate, by November 14, 1959. [5743]

North Down Rural District ARCHITECTURAL ASSISTANT WANTED

APPLICATIONS are invited for a position as Architectural Assistant. The successful applicant should have passed the Intermediate examination of the Royal Institute of British Architects, and will be placed on a salary scale ranging from £670 per annum to £765 per annum.

Applications should be forwarded to the Clerk, North Down Rural District Council, 2 Church Street, Newtownards, Newtownards, October 20, 1959. [5737]

County Borough of East Ham

Borough Engineer's Department

APPLICATIONS are invited for the following temporary appointment:

Architectural Assistant, Grade II (£765/£880).

London Weighting is paid in addition, and a salary in excess of the minimum may be paid according to qualifications and experience. The appointment is for work on a new technical college and is expected to be for a period of not less than three years.

Further details and application forms, returnable by November 13, 1959, from the Town Clerk, Town Hall, East Ham, E.6. [5739]

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ARCHITECTURAL ASSISTANT. Intermediate standard. Busy London office. Good prospects. Box 3668. [0080]

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ARCHITECTURAL ASSISTANTS capable of preparing plans for domestic houses and bungalows, preparing site layouts, able to carry out or assist in site surveys, an advantage, preparing road and sewer sections, general detailing. All inquiries will be answered. Trustee Corporation (Universal) Ltd., Lime Lodge, Heath Road, Oxhey, Watford, Herts (Watford 2626). [5729]

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ASSISTANT ARCHITECT required. Experienced on the maintenance of industrial buildings. Apply for further information to the General Manager, Lancashire United Transport Ltd., Atherton, Lancs. [5711]

ASSISTANT required immediately; varied and interesting work. Salary £500/£700 p.a., according to ability. Antony Lamb, A.R.I.B.A., A.M.T.P.I., Ottery St. Mary, Devon. Tel. 278. [5732]

BOOTH, LEDEBOER & PINCKHEARD. 17-20 Mason's Yard, Duke Street, St. James's, S.W.1, require Assistants in salary range £750/£1,000 p.a. Tel. TRA 1866. [5901]

CHARLES PIKE & PARTNERS require Assistants for schools, training colleges, hostels, technical colleges, offices, etc. Write giving age, experience and salary to: 14 Lincoln's Inn Fields, W.C.2. [5718]

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FREDERICK GIBBERD'S London office requires two Architectural Assistants: one Intermediate and one Final standard. Write, giving experience and salary required, to 8 Percy Street, London, W.1. [5738]

GOLLINS, MELVIN, WARD & PARTNERS are looking for staff to work on the design of hospital, university and office projects. Age and experience are less important than enthusiasm and interest in architecture. Five-day week, quarterly bonuses, pensions scheme. Ring Welbeck 9991 for appointment. [5740]

HOWELLS AND DOHERTY, F.R.I.B.A., F.R.I.C.S., Masonic Buildings, Banor, North Wales, require one qualified Architectural Assistant, or near qualified. Interesting work in pleasant area. Ability and energy essential with salaries accordingly. [5721]

REQUIRED immediately for interesting work including technical college, housing and industrial schemes. Architectural Assistants of not less than Intermediate standard with considerable office experience. Junior Assistants with some drawing office experience. Applications, stating age, experience and salary required, to: Atkinson, Smith and Haywood, F.F., A.R.I.B.A., 4 Raymond Buildings, Grays Inn, London, W.C.1. [5735]

SCHERRER & HICKS, 19 Cavendish Square, London, W.1, require immediately several assistants of graduate standard prepared to accept responsibility. Interesting and varied projects. Apply giving age, qualifications, experience and salary required. [5697]

TAYLOR, YOUNG & PARTNERS, Manchester, require assistants for work on schools, hospitals and other projects. Apply in writing to 195 Oxford Road, Manchester 13. [5726]

TWO additional Architectural Assistants required—preferably capable of handling jobs throughout. Busy and varied practice. Salaries by arrangement. D. C. Denton-Smith & Partners, Chartered Architects, Surveyors, 40 Regent Street, Cambridge. [5696]

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ARCHITECTURAL APPOINTMENTS VACANT (cont)

WEST County office. Progressive Architect requires responsible assistant. John Radford, A.R.I.B.A., 14 Southernhay West, Exeter. Telephone 72910. [5731]

WILLIAM RYDER, 21 Bruton Street, Berkeley Square, W.1, requires keen young assistant with good constructional knowledge and experience of work in London, and with special flair for contemporary design. Apply giving age, qualifications, experience and salary required. [5733]

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Apply, giving details of age, training and experience to: E. Bedford, C.B., C.V.O., A.R.I.B.A., Chief Architect, Ministry of Works, Room 435, Abell House, John Islip Street, London, S.W.1.

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Candidates must be Registered Architects by examination, or Registered Architects who, since registration, have passed a professional examination in Architecture recognized by the Architects' Registration Council of the United Kingdom. They must also possess good professional experience.

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State age and full details of training and experience to Chief Architect, Ministry of Works (B), Room 435, Abell House, John Islip Street, London, S.W.1.

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Issue dated 28 October 1959

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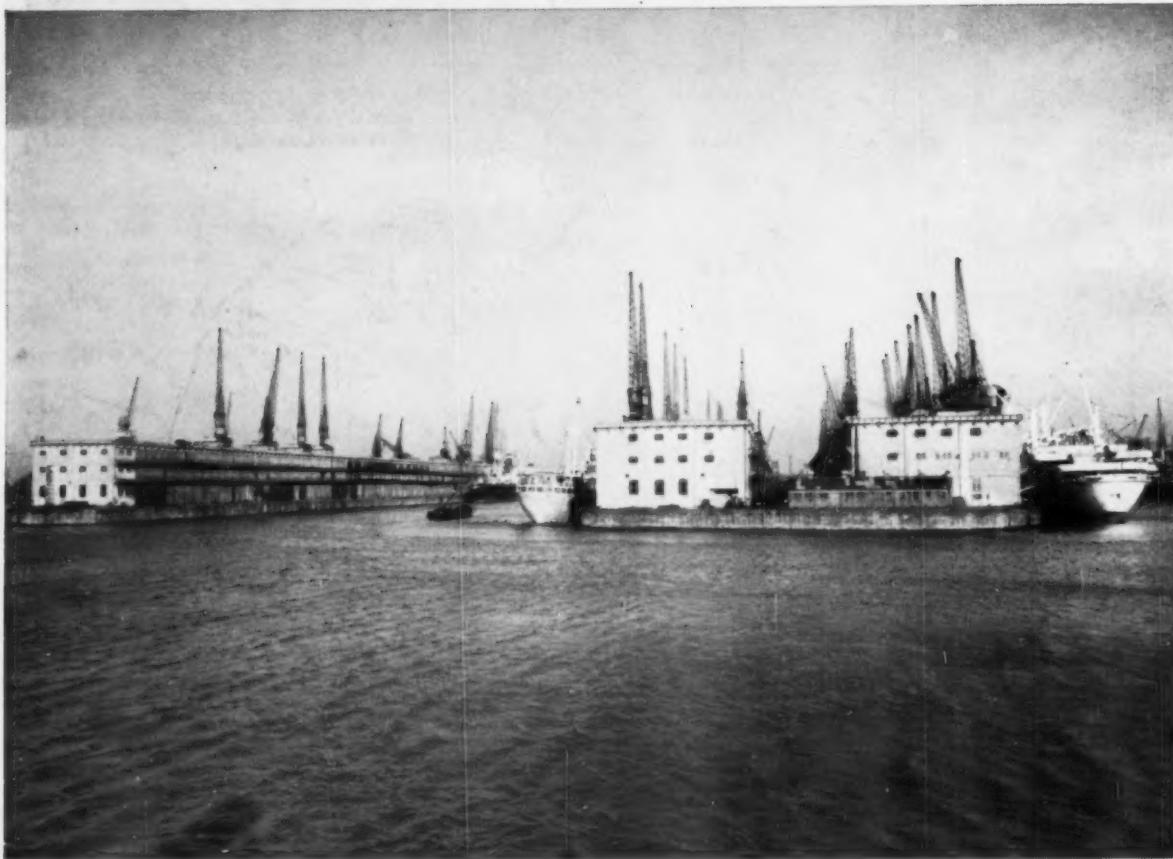
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